

&lt;210&gt; 1699

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1699

Cys Cys Ser Glu Gln Gln Arg Ile Ser Lys Asp Leu Ala Asn Ile Cys  
1 5 10 15  
Lys Thr Ala Ala Thr Ala Gly Ile Ile Gly Trp Val Tyr Gly Gly Ile  
20 25 30  
Pro Ala Phe Ile His Ala Lys Gln Gln Tyr Ile Glu Gln Ser Gln Ala  
35 40 45  
Glu Ile Tyr His Asn Arg Phe Asp Ala Val Gln Ser Ala His Arg Ala  
50 55 60  
Ala Thr Arg Gly Phe Ile Arg Tyr Gly Trp Arg Trp Gly Trp Arg Thr  
65 70 75 80  
Ala Val Phe Val Thr Ile Phe Asn Thr Val Asn Thr Ser Leu Asn Val  
85 90 95  
Tyr Arg Asn Lys Asp Ala Leu Ser His Phe Val Ile Ala Gly Ala Val  
100 105 110  
Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala  
115 120 125  
Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu  
130 135 140  
Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln  
145 150 155 160  
Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly  
165 170 175  
Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu  
180 185 190  
Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu  
195 200 205  
Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp  
210 215 220

<210> 1700  
<211> 543  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (264)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (269)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (279)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700  
Ala Arg Ala Arg Leu Thr Cys Pro Arg Arg Arg Gly Pro Trp Glu Ala  
1 5 10 15  
Gly Ser Arg Ala Thr Val Ser Leu Thr Arg Leu Ala Leu Gly Val Pro  
20 25 30  
Gly Pro Arg Glu His Pro Gly Gln Pro Glu Asp Ser Pro Glu Ala Glu  
35 40 45  
Ala Ser Thr Leu Asp Val Phe Thr Glu Arg Leu Pro Pro Ser Gly Arg  
50 55 60  
Ile Thr Lys Thr Glu Ser Leu Val Ile Pro Ser Thr Arg Ser Glu Gly  
65 70 75 80  
Lys Gln Ala Gly Arg Arg Gly Arg Ser Thr Ser Leu Lys Glu Arg Gln  
85 90 95  
Ala Ala Arg Pro Gln Asn Glu Arg Ala Asn Ser Leu Asp Asn Glu Arg  
100 105 110  
Cys Pro Asp Ala Arg Ser Gln Leu Gln Ile Pro Arg Lys Thr Val Tyr  
115 120 125  
Asp Gln Leu Asn His Ile Leu Ile Ser Asp Asp Gln Leu Pro Glu Asn  
130 135 140  
Ile Ile Leu Val Asn Thr Ser Asp Trp Gln Gly Gln Phe Leu Ser Asp  
145 150 155 160

Val Leu Gln Arg His Thr Leu Pro Val Val Cys Thr Cys Ser Pro Ala  
165 170 175

Asp Val Gln Ala Ala Phe Ser Thr Ile Val Ser Arg Ile Gln Arg Tyr  
180 185 190

Cys Asn Cys Asn Ser Gln Pro Pro Thr Pro Val Lys Ile Ala Val Ala  
195 200 205

Gly Ala Gln His Tyr Leu Ser Ala Ile Leu Arg Leu Phe Val Glu Gln  
210 215 220

Leu Ser His Lys Thr Pro Asp Trp Leu Gly Tyr Met Arg Phe Leu Val  
225 230 235 240

Ile Pro Leu Gly Ser His Pro Val Ala Arg Tyr Leu Gly Ser Val Asp  
245 250 255

Tyr Arg Tyr Asn Asn Phe Phe Xaa Asp Leu Ala Trp Xaa Asp Leu Phe  
260 265 270

Asn Lys Leu Glu Ala Gln Xaa Ala Val Gln Asp Thr Pro Asp Ile Val  
275 280 285

Ser Arg Ile Thr Gln Tyr Ile Ala Gly Ala Asn Cys Ala His Gln Leu  
290 295 300

Pro Ile Ala Glu Ala Met Leu Thr Tyr Lys Gln Lys Ser Pro Asp Glu  
305 310 315 320

Glu Ser Ser Gln Lys Phe Ile Pro Phe Val Gly Val Val Lys Val Gly  
325 330 335

Ile Val Glu Pro Ser Ser Ala Thr Ser Gly Asp Ser Asp Asp Ala Ala  
340 345 350

Pro Ser Gly Ser Gly Thr Leu Ser Ser Thr Pro Pro Ser Ala Ser Pro  
355 360 365

Ala Ala Lys Glu Ala Ser Pro Thr Pro Pro Ser Ser Pro Ser Val Ser  
370 375 380

Gly Gly Leu Ser Ser Pro Ser Gln Gly Val Gly Ala Glu Leu Met Gly  
385 390 395 400

Leu Gln Val Asp Tyr Trp Thr Ala Ala Gln Pro Ala Asp Arg Lys Arg  
405 410 415

Asp Ala Glu Lys Lys Asp Leu Pro Val Thr Lys Asn Thr Leu Lys Cys  
420 425 430

Thr Phe Arg Ser Leu Gln Val Ser Arg Leu Pro Ser Ser Gly Glu Ala  
435 440 445

Ala Ala Thr Pro Thr Met Ser Met Thr Val Val Thr Lys Glu Lys Asn  
450 455 460

Lys Lys Val Met Phe Leu Pro Lys Lys Ala Lys Asp Lys Asp Val Glu  
465 470 475 480

Ser Lys Ser Gln Cys Ile Glu Gly Ile Ser Arg Leu Ile Cys Thr Ala  
485 490 495

Arg Gln Gln Gln Asn Met Leu Arg Val Leu Ile Asp Gly Val Glu Cys  
500 505 510

Ser Asp Val Lys Phe Phe Gln Leu Ala Ala Gln Trp Ser Ser His Val  
515 520 525

Lys His Phe Pro Ile Cys Ile Phe Gly His Ser Lys Ala Thr Phe  
530 535 540

<210> 1701

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1701

Ile Pro Ser Tyr Thr Ile Lys Cys Ser Ile Gly Arg Gln Ser Val Ser  
1 5 10 15

Phe Phe Phe Tyr Val Tyr Cys Leu Cys Gly Val Lys Tyr Lys Ala Leu  
20 25 30

Gly Cys Ile Thr Tyr Ser Lys Ala Val Thr Leu Ser Leu Ile Cys Cys  
35 40 45

Asp Pro Leu Lys Met Cys Trp Gly Leu Phe Cys Cys His Cys Leu Cys  
50 55 60

Cys Trp Asn Leu Ala Leu Ser  
65 70

<210> 1702

<211> 131

<212> PRT

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1702

Glu His Val Phe Gly Phe Leu Phe Cys Val Ser Leu Leu Arg Ile Met  
 1 5 10 15

Ala Ser Ser Ser Asp Gly Ile Ser Leu Ser Tyr Arg Pro Val Val Thr  
 20 25 30

Gly Gln Asp Arg Met Met Asp Thr Glu Val Leu Ser Leu Leu Ser Ser  
 35 40 45

Val Ala Leu Pro Ser Leu Leu Leu Ala Ser Glu Ser Phe Asp Ser Ile  
 50 55 60

Tyr Pro Gly Ile Phe Cys Val Leu Met Phe Ser Ser Gly Leu Xaa Ser  
 65 70 75 80

Ala Val Leu Ile Gly Arg Ala Leu Ser Phe Gln Ala Ile Leu Lys Gly  
 85 90 95

Gly Gln Ser Lys Gly Gln Ser Leu Asn Pro Phe Cys Gly Leu Asn Asn  
 100 105 110

Leu Arg Ile Lys Ser Ser Val Leu Leu Ile Pro Val Leu Leu Cys Gln  
 115 120 125

Thr Leu Ser  
 130

&lt;210&gt; 1703

&lt;211&gt; 330

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1703

His Gly Asn Pro Asp Arg Arg Pro Arg Gly Glu Glu Glu Gly Asp Pro  
 1 5 10 15

Val Gly Pro Ala Thr Leu Ser Ala Arg Leu Gly Ala Ser Ala Gly Ala  
 20 25 30

Met Thr Ser Leu Thr Gln Arg Ser Ser Gly Leu Val Gln Arg Arg Thr  
 35 40 45

Glu Ala Ser Arg Asn Ala Ala Asp Lys Glu Arg Ala Ala Gly Gly Gly  
50 55 60

Ala Gly Ser Ser Glu Asp Asp Ala Gln Ser Arg Arg Asp Glu Gln Asp  
65 70 75 80

Asp Asp Asp Lys Gly Asp Ser Lys Glu Thr Arg Leu Thr Leu Met Glu  
85 90 95

Glu Val Leu Leu Leu Gly Leu Lys Asp Arg Glu Gly Tyr Thr Ser Phe  
100 105 110

Trp Asn Asp Cys Ile Ser Ser Gly Leu Arg Gly Cys Met Leu Ile Glu  
115 120 125

Leu Ala Leu Arg Gly Arg Leu Gln Leu Glu Ala Cys Gly Met Arg Arg  
130 135 140

Lys Ser Leu Leu Thr Arg Lys Val Ile Cys Lys Ser Asp Ala Pro Thr  
145 150 155 160

Gly Asp Val Leu Leu Asp Glu Ala Leu Lys His Val Lys Glu Thr Gln  
165 170 175

Pro Pro Glu Thr Val Gln Asn Trp Ile Glu Leu Leu Ser Gly Glu Thr  
180 185 190

Trp Asn Pro Leu Lys Leu His Tyr Gln Leu Arg Asn Val Arg Glu Arg  
195 200 205

Leu Ala Lys Asn Leu Val Glu Lys Gly Val Leu Thr Thr Glu Lys Gln  
210 215 220

Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Leu Thr Asn Asn Asn  
225 230 235 240

Ile Lys Gln Arg Leu Ile Lys Lys Val Gln Glu Ala Val Leu Asp Lys  
245 250 255

Trp Val Asn Asp Pro His Arg Met Asp Arg Arg Leu Leu Ala Leu Ile  
260 265 270

Tyr Leu Ala His Ala Ser Asp Val Leu Glu Asn Ala Phe Ala Pro Leu  
275 280 285

Leu Asp Glu Gln Tyr Asp Leu Ala Thr Lys Arg Val Arg Gln Leu Leu  
290 295 300

Asp Leu Asp Pro Glu Val Glu Cys Leu Lys Ala Asn Thr Asn Glu Val  
305 310 315 320

Leu Trp Ala Val Val Ala Ala Phe Thr Lys  
325 330

<210> 1704  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 1704  
Val Phe Ile Ser Ile Val Ser Leu Arg His Gly Lys Gly Arg Met Leu  
1 5 10 15  
Lys Gln Val Met Phe Val Phe Ser Gly Met Gly Pro Arg Ser His Cys  
20 25 30  
Trp Gly Leu Pro Leu His Val Ala Pro Leu Cys Arg Pro Pro Gly Arg  
35 40 45  
Leu Phe Pro Pro Ser Pro Thr Glu Ala Pro Arg Gly Leu Asn Arg Asn  
50 55 60  
Leu Ala Asn Gln Arg His Phe Phe Cys Pro Ser Ile Phe His Thr Cys  
65 70 75 80  
Pro Thr Val Leu Phe Phe  
85

<210> 1705  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 1705  
Phe Gly Gly Glu Glu Met Ala Asp Ser Val Lys Thr Phe Leu Gln Asp  
1 5 10 15  
Leu

<210> 1706  
<211> 471  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (373)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (446)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1706

Ser Thr Pro Ser Gly Tyr Leu Glu Leu Pro Asp Leu Gly Gln Pro Tyr  
1 5 10 15

Ser Ser Ala Val Tyr Ser Leu Glu Glu Gln Tyr Leu Gly Leu Ala Leu  
20 25 30

Asp Val Asp Arg Xaa Lys Lys Asp Xaa Glu Glu Glu Glu Asp Gln Xaa  
35 40 45

Pro Pro Cys Pro Arg Leu Ser Arg Glu Leu Leu Glu Val Val Glu Pro  
50 55 60

Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro Ser Ser  
65 70 75 80

Cys Leu Glu Gln Pro Asp Ser Cys Gln Pro Tyr Gly Ser Ser Phe Tyr  
85 90 95

Ala Leu Glu Glu Lys His Val Gly Phe Ser Leu Asp Val Gly Glu Ile  
100 105 110

Glu Lys Lys Gly Lys Gly Lys Lys Arg Arg Gly Arg Arg Ser Lys Lys  
115 120 125

Glu Arg Arg Arg Gly Arg Lys Glu Gly Glu Glu Asp Gln Asn Pro Pro  
130 135 140

Cys Pro Arg Leu Ser Arg Glu Leu Leu Asp Glu Lys Gly Pro Glu Val  
145 150 155 160

Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro Ser Gly Cys Leu  
165 170 175

Glu Leu Thr Asp Ser Cys Gln Pro Tyr Arg Ser Ala Phe Tyr Xaa Leu  
180 185 190

Glu Gln Gln Arg Val Gly Leu Ala Val Asp Met Asp Glu Ile Glu Lys  
195 200 205

Tyr Gln Glu Val Glu Glu Asp Gln Asp Pro Ser Cys Pro Arg Leu Ser  
210 215 220

Arg Glu Leu Leu Asp Glu Lys Glu Pro Glu Val Leu Gln Asp Ser Leu  
225 230 235 240

Asp Arg Cys Tyr Ser Thr Pro Ser Gly Tyr Leu Glu Leu Pro Asp Leu  
245 250 255

Gly Gln Pro Tyr Ser Ser Ala Val Tyr Ser Leu Glu Glu Gln Tyr Leu  
260 265 270

Gly Leu Ala Leu Asp Val Asp Arg Ile Lys Lys Asp Gln Glu Glu Glu  
275 280 285

Glu Asp Gln Gly Pro Pro Cys Pro Arg Leu Ser Arg Glu Leu Leu Glu  
290 295 300

Val Val Glu Pro Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser  
305 310 315 320

Thr Pro Ser Ser Cys Leu Glu Gln Pro Asp Ser Cys Gln Pro Tyr Gly  
325 330 335

Ser Ser Phe Tyr Ala Leu Glu Glu Lys His Val Gly Phe Ser Leu Asp  
340 345 350

Val Gly Glu Ile Glu Lys Lys Gly Lys Gly Lys Lys Arg Arg Gly Arg  
355 360 365

Arg Ser Lys Lys Xaa Arg Arg Arg Gly Arg Lys Glu Gly Glu Glu Asp  
370 375 380

Gln Asn Pro Pro Cys Pro Arg Leu Asn Gly Val Leu Met Glu Val Glu  
385 390 395 400

Glu Pro Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro  
405 410 415

Ser Met Tyr Phe Glu Leu Pro Asp Ser Phe Gln His Tyr Arg Ser Val  
420 425 430

Phe Tyr Ser Phe Glu Glu Gln His Ile Ser Phe Ala Leu Xaa Val Asp  
435 440 445

Asn Arg Phe Phe Thr Leu Thr Val Thr Ser Leu His Leu Val Phe Gln  
450 455 460

Met Gly Val Ile Phe Pro Gln  
465 470

<210> 1707

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1707

Arg Glu Arg Asn Leu Gly Ala Pro Gly Ser Gly Leu Lys Ala Ala Arg  
1 5 10 15

Gln Ser Arg Ala Val Leu Ala Pro Ala Arg Gly Ala Ala Ala Pro Gly  
20 25 30

Val Ala Met Thr Ser Glu Leu Asp Ile Phe Val Gly Asn Thr Thr Leu  
35 40 45

Ile Asp Glu Asp Val Tyr Arg Leu Trp Leu Asp Gly Tyr Ser Val Thr  
50 55 60

Asp Ala Val Ala Leu Arg Val Arg Ser Gly Ile Leu Glu Gln Thr Gly  
65 70 75 80

Ala Thr Ala Ala Val Leu Gln Ser Asp Thr Met Asp His Tyr Arg Thr  
85 90 95

Phe His Met Leu Glu Arg Leu Leu His Ala Pro Pro Lys Leu Leu His  
100 105 110

Gln Leu Ile Phe Gln Ile Pro Pro Ser Arg Gln Ala Leu Leu Ile Glu  
115 120 125

Arg Tyr Tyr Ala Phe Asp Glu Ala Phe Val Arg Glu Val Leu Gly Lys

130	135	140
Lys Leu Ser Lys Gly Thr Lys Lys Asp Leu Asp Asp Ile Ser Thr Lys		
145	150	155 160
Thr Gly Ile Thr Leu Lys Ser Cys Arg Arg Gln Phe Asp Asn Phe Lys		
165	170	175
Arg Val Phe Lys Val Val Glu Glu Met Arg Gly Ser Leu Val Asp Asn		
180	185	190
Ile Gln Gln His Phe Leu Leu Ser Asp Arg Leu Ala Arg Asp Tyr Ala		
195	200	205
Ala Ile Val Phe Phe Ala Asn Asn Arg Phe Glu Thr Gly Lys Lys Lys		
210	215	220
Leu Gln Tyr Leu Ser Phe Gly Asp Phe Ala Phe Cys Ala Glu Leu Met		
225	230	235 240
Ile Gln Asn Trp Thr Leu Trp Ser Arg Arg		
245	250	

&lt;210&gt; 1708

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (283)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1708

Ile Tyr His Pro Ala Val Val Glu Ser Thr Ile Cys Ser Gly Ile Tyr
1 5 10 15

Thr Gln Cys Gln Phe Asp Ile Met Leu Gly Gly Thr Asp Cys Arg Thr
20 25 30

Phe Leu Thr Ser His Ile Asn Leu Lys Lys Thr Leu Cys Asp Val Ile  
35 40 45

Leu Met Val Gln Glu Arg Lys Ile Pro Ala His Arg Val Val Leu Ala  
50 55 60

Ala Ala Ser His Phe Phe Asn Leu Met Phe Thr Thr Asn Met Leu Glu  
65 70 75 80

Ser Lys Ser Phe Glu Val Glu Leu Lys Asp Ala Glu Pro Asp Ile Ile  
85 90 95

Glu Gln Leu Val Glu Phe Ala Tyr Thr Ala Arg Ile Ser Val Asn Xaa  
100 105 110

Asn Asn Val Gln Ser Leu Leu Asp Ala Ala Asn Gln Tyr Gln Xaa Glu  
115 120 125

Pro Val Lys Lys Met Cys Val Asp Phe Leu Lys Glu Gln Val Asp Ala  
130 135 140

Ser Asn Cys Leu Gly Ile Ser Val Leu Ala Glu Cys Leu Asp Cys Pro  
145 150 155 160

Glu Leu Lys Ala Thr Ala Asp Asp Phe Ile His Gln His Phe Thr Glu  
165 170 175

Val Tyr Lys Thr Asp Glu Phe Leu Gln Leu Asp Val Lys Arg Val Thr  
180 185 190

His Leu Leu Asn Gln Asp Thr Leu Thr Val Arg Ala Glu Asp Gln Val  
195 200 205

Tyr Asp Ala Ala Val Arg Trp Leu Lys Tyr Asp Glu Pro Asn Arg Gln  
210 215 220

Pro Phe Met Val Asp Ile Leu Ala Lys Val Arg Phe Pro Leu Ile Ser  
225 230 235 240

Lys Asn Phe Leu Ser Lys Thr Val Gln Ala Glu Pro Leu Ile Gln Asp  
245 250 255

Asn Pro Glu Cys Leu Lys Met Val Ile Ser Gly Met Arg Tyr His Leu  
260 265 270

Leu Ser Pro Glu Asp Arg Glu Glu Leu Val Xaa Gly Thr Arg Pro Arg  
275 280 285

Arg Lys Lys His Asp Tyr Arg Ile Ala Leu Phe Gly Gly Ser Gln Pro  
290 295 300



Gln Ser Cys Arg Tyr Phe Asn Pro Lys Asp Tyr Ser Trp Thr Asp Ile  
305 310 315 320

Arg Cys Pro Phe Glu Lys Arg Glu Met Gln His Ala Cys Phe Gly Thr  
325 330 335

Met

<210> 1709

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1709

Val Ala Ser Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp  
1 5 10 15

Gln Ala Leu Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp  
20 25 30

Thr Leu Ser Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr  
35 40 45

Cys Arg Val Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val  
50 55 60

Asp Val Ile Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His  
65 70 75 80

Pro Val Asn Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys  
85 90 95

Lys Val Arg Thr Thr  
100

<210> 1710

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1710

Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser  
1 5 10 15

Pro Gly Leu Gln Glu Phe Gly Thr Arg Asn Leu Arg Lys Met Val Ala

20 25 30  
Met Ala Ala Gly Pro Ser Gly Cys Leu Val Pro Ala Phe Gly Leu Arg  
35 40 45  
Leu Leu Leu Ala Thr Val Leu Gln Ala Val Ser Ala Phe Gly Ala Glu  
50 55 60  
Phe Ser Ser Glu Ala Cys Arg Glu Leu Gly Phe Ser Ser Asn Leu Leu  
65 70 75 80  
Cys Ser Ser Cys Asp Leu Leu Gly Gln Phe Asn Leu Leu Gln Leu Asp  
85 90 95  
Pro Asp Cys Arg Gly Cys Cys Gln Glu Glu Ala Gln Phe Glu Thr Lys  
100 105 110  
Lys Leu Tyr Ala Gly Ala Ile Leu Glu Val Cys Gly  
115 120

&lt;210&gt; 1711

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1711

Gly His Ala Ser Phe Arg Ala Phe Ser Phe Pro Pro Ser Ile Ser Asn  
1 5 10 15  
Leu Gly Met Phe Gly Ile Asp Glu Phe Thr Ala Val Ile Asn Pro Pro  
20 25 30  
Gln Ala Cys Ile Leu Ala Val Gly Arg Phe Arg Pro Val Leu Lys Leu  
35 40 45  
Thr Glu Asp Glu Glu Gly Asn Ala Lys Leu Gln Gln Arg Gln Leu Ile  
50 55 60  
Thr Val Thr Met Ser Ser Asp Ser Arg Val Val Asp Asp Glu Leu Ala  
65 70 75 80  
Thr Arg Phe Leu Lys Ser Phe Lys Ala Asn Leu Glu Asn Pro Ile Arg  
85 90 95  
Leu Ala

&lt;210&gt; 1712

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1712

Gly Ile Lys Gly Pro Trp Thr Glu Ser Cys Leu Gly Gly Pro Ser Gly  
 1 5 10 15

Met Gly Xaa Gly His Thr Ser Leu Ala Ile Ser Gln Gln Asp Gln Ser  
 20 25 30

Lys Leu Tyr His Leu Pro Pro Pro Thr Val Gly Pro His Ser Ile Ala  
 35 40 45

Ser Pro Pro Glu Asp Arg Thr Val Lys Asp Ser Thr Pro Ser Ser Leu  
 50 55 60

Asp Ser Asp Pro Leu Met Ala Met Leu Leu Lys Leu Gln Glu Ala Ala  
 65 70 75 80

Asn Tyr Ile Glu Ser Pro Asp Arg Glu Thr Ile Leu Asp Pro Asn Leu  
 85 90 95

Gln Ala Thr Leu  
 100

&lt;210&gt; 1713

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1713

Pro Ile Phe Ile Glu Tyr Phe Leu His Val Gln Leu His Pro Leu Cys  
 1 5 10 15

Lys Asp Tyr Met Asn Ile Ala His Ser Leu Leu Val Ser Gln Thr His  
 20 25 30

Leu Tyr Ile Phe Leu Ser Glu Ala His Cys Thr Cys Ile Glu Ala Arg  
 35 40 45

Ile Glu Ser Arg Lys Ile Lys Pro His Ser Pro Thr Ala Lys Cys Ala  
 50 55 60

&lt;210&gt; 1716

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1716

Ala Ala Glu Glu Thr Gly Gly Ala Gln Pro Glu Gly Arg Gly Val Gly  
1 5 10 15

Pro Lys Glu Arg Glu Leu Gln His Ala Ala Leu Gly Gly Thr Ala Ile  
20 25 30

Gln Pro Cys Phe Phe Gln Asp Ile Ser Met Glu Ile Pro Gln Glu Phe  
35 40 45

Gln Lys Thr Val Ser Thr Met Tyr Tyr Leu Trp Met Cys Ser Thr Leu  
50 55 60

Ala Leu Leu Leu Asn Phe Leu Ala Cys Leu Ala Ser Phe Cys Val Glu  
65 70 75 80

Thr Asn Asn Gly Ala Gly Phe Gly Leu Ser Ile Leu Trp Val Leu Leu  
85 90 95

Phe Thr Pro Cys Ser Phe Val Cys Trp Tyr Arg Pro Met Tyr Lys Ala  
100 105 110

Phe Arg Ser Asp Ser Ser Phe Asn Phe Phe Val Phe Phe Phe Ile Phe  
115 120 125

Phe Val Gln Asp Val Leu Phe Val Leu Gln Ala Ile Gly Ile Pro Gly  
130 135 140

Trp Gly Phe Ser Gly Trp Ile Ser Ala Leu Val Val Pro Lys Ala Thr  
145 150 155 160

Gln Gln Tyr Pro Cys Ser Cys Cys Trp Ser Pro Cys Ser Ser Leu Ala  
165 170 175

Leu Leu Cys

&lt;210&gt; 1717

&lt;211&gt; 499

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (485)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (486)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1717  
Arg Pro Val Arg Asn Ser Arg Val Thr Thr Xaa Pro Pro Ala Gln Gln  
1 5 10 15

Thr Arg Arg Asp Gln Ser Val Pro Val Gly Ser Met Ala Thr Lys Cys  
20 25 30

Gly Asn Cys Gly Pro Gly Tyr Ser Thr Pro Leu Glu Ala Met Lys Gly  
35 40 45

Pro Arg Glu Glu Ile Val Tyr Leu Pro Cys Ile Tyr Arg Asn Thr Gly  
50 55 60

Thr Glu Ala Pro Asp Tyr Leu Ala Thr Val Asp Val Asp Pro Lys Ser  
65 70 75 80

Pro Gln Tyr Cys Gln Val Ile His Arg Leu Pro Met Pro Asn Leu Lys  
85 90 95

Asp Glu Leu His His Ser Gly Trp Asn Thr Cys Ser Ser Cys Phe Gly  
100 105 110

Asp Ser Thr Lys Ser Arg Thr Lys Leu Val Leu Pro Ser Leu Ile Ser  
115 120 125

Ser Arg Ile Tyr Val Val Asp Val Gly Ser Glu Pro Arg Ala Pro Lys  
130 135 140

Leu His Lys Val Ile Glu Pro Lys Asp Ile His Ala Lys Cys Glu Leu  
145 150 155 160

Ala Phe Leu His Thr Ser His Cys Leu Ala Ser Gly Glu Val Met Ile  
165 170 175

Ser Ser Leu Gly Asp Val Lys Gly Asn Gly Lys Gly Gly Phe Val Leu

180	185	190
Leu Asp Gly Glu Thr Phe Glu Val Lys Gly Thr Trp Glu Arg Pro Gly		
195	200	205
Gly Ala Ala Pro Leu Gly Tyr Asp Phe Trp Tyr Gln Pro Arg His Asn		
210	215	220
Val Met Ile Ser Thr Glu Trp Ala Ala Pro Asn Val Leu Arg Asp Gly		
225	230	235 240
Phe Asn Pro Ala Asp Val Glu Ala Gly Leu Tyr Gly Ser His Leu Tyr		
245	250	255
Val Trp Asp Trp Gln Arg His Glu Ile Val Gln Thr Leu Ser Leu Lys		
260	265	270
Asp Gly Leu Ile Pro Leu Glu Ile Arg Phe Leu His Asn Pro Asp Ala		
275	280	285
Ala Gln Gly Phe Val Gly Cys Ala Leu Ser Ser Thr Ile Gln Arg Phe		
290	295	300
Tyr Lys Asn Glu Gly Gly Thr Trp Ser Val Glu Lys Val Ile Gln Val		
305	310	315 320
Pro Pro Lys Lys Val Lys Gly Trp Leu Leu Pro Glu Met Pro Gly Leu		
325	330	335
Ile Thr Asp Ile Leu Leu Ser Leu Asp Asp Arg Phe Leu Tyr Phe Ser		
340	345	350
Asn Trp Leu His Gly Asp Leu Arg Gln Tyr Asp Ile Ser Asp Pro Gln		
355	360	365
Arg Pro Arg Leu Thr Gly Gln Leu Phe Leu Gly Gly Ser Ile Val Lys		
370	375	380
Gly Gly Pro Val Gln Val Leu Glu Asp Glu Glu Leu Lys Ser Gln Pro		
385	390	395 400
Glu Pro Leu Val Val Lys Gly Lys Arg Val Ala Gly Gly Pro Gln Met		
405	410	415
Ile Gln Leu Ser Leu Asp Gly Lys Arg Leu Tyr Ile Thr Thr Ser Leu		
420	425	430
Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp Leu Ile Arg Glu Gly		
435	440	445
Ser Val Met Leu Gln Val Asp Val Asp Thr Val Lys Gly Gly Leu Lys		

450

455

460

Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys Glu Pro Leu Gly Pro  
 465 470 475 480

Ala Leu Ala His Xaa Xaa Arg Tyr Pro Gly Gly Asp Cys Ser Ser Asp  
 485 490 495

Ile Trp Ile

<210> 1718

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1718

Phe Ile Met Asp Asn Leu Ser Ser Glu Glu Ile Gln Gln Arg Ala His  
 1 5 10 15

Gln Ile Thr Asp Glu Ser Leu Glu Ser Thr Arg Arg Ile Leu Gly Leu  
 20 25 30

Ala Ile Glu Ser Gln Asp Ala Gly Ile Lys Thr Ile Thr Met Leu Asp  
 35 40 45

Glu Gln Lys Glu Gln Leu Asn Arg Ile Glu Glu Gly Leu Asp Gln Ile  
 50 55 60

Asn Lys Asp Met Arg Glu Thr Glu Lys Thr Leu Thr Glu Leu Asn Lys  
 65 70 75 80

Cys Cys Gly Leu Cys Val Cys Pro Cys Asn Arg Thr Lys Asn Phe Glu  
 85 90 95

Ser Gly Lys Ala Tyr Lys Thr Thr Trp Gly Asp Gly Gly Glu Asn Ser  
 100 105 110

Pro Cys Asn Val Val Ser Lys Gln Pro Gly Pro Val Thr Asn Gly Gln  
 115 120 125

Leu Gln Gln Pro Thr Thr Gly Ala Ala Ser Gly Gly Tyr Ile Lys Arg  
 130 135 140

Ile Thr Asn Asp Ala Arg Glu Asp Glu Met Glu Glu Asn Leu Thr Gln  
 145 150 155 160

Val Gly Ser Ile Leu Gly Asn Leu Lys Asp Met Ala Leu Asn Ile Gly  
 165 170 175

Asn Glu Ile Asp Ala Gln Asn Pro Gln Ile Lys Arg Ile Thr Asp Lys  
180 185 190

Ala Asp Thr Asn Arg Asp Arg Ile Asp Ile Ala Asn Ala Arg Ala Lys  
195 200 205

Lys Leu Ile Asp Ser  
210

<210> 1719

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1719

Gly Met Glu Gly Thr Glu Met Gly Ala Arg Pro Gly Gly His Pro Gln  
1 5 10 15

Lys Trp Ser Phe Leu Trp Ser Leu Ala Leu Trp Leu Pro Leu Ala Leu  
20 25 30

Ser Val Ser Leu Phe Leu Gly Leu Ser Leu Ser Pro Pro Gln Pro Gly  
35 40 45

Leu Ser Leu Trp Cys Thr Leu Ser Tyr Cys Cys Glu Gln Trp Lys Phe  
50 55 60

Lys Gly Thr Pro Ser Pro Ala Leu Leu Asn Leu Gly Thr Gln Pro Lys  
65 70 75 80

Lys Asp Lys Lys Leu Glu Asp Ser Ile Ala Thr Gln Leu Arg Glu Leu  
85 90 95

Pro Glu Lys Asn Ser Asn  
100

<210> 1720

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1720

Ala Gln Trp Leu Thr Pro Val Ile Leu Ala Phe Trp Lys Ala Glu Ala  
1 5 10 15

Gly Gly Ser Leu



20

&lt;210&gt; 1721

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1721

Ile Arg His Glu Val Leu Ile Val Pro Leu Leu Val Gly Leu Arg Gln  
1 5 10 15

Glu Asp His Leu Ser Pro Gly Gly Arg Gly Tyr Ser Glu Pro Arg Val  
20 25 30

His Tyr Cys Thr Pro Ala Arg Xaa Arg Glu Arg Asp Pro Val Ser Ile  
35 40 45

Asn Lys

50

&lt;210&gt; 1722

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1722

Glu Xaa Gly Thr Glu Ser His Tyr Val Thr Gln Ala Gly Val Gln Trp  
1 5 10 15

His Asp Leu Ser Ser Leu Gln Pro Ser Pro Pro Gly Phe Lys Arg Phe  
20 25 30

Ser Cys Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg His Thr Pro Pro  
35 40 45

Arg Pro Ala Asn Phe Leu Tyr Phe  
50 55

<210> 1723  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1723  
Gly Ser Thr His Ala Ser Ala Met Xaa Xaa Xaa Thr Ser Gly Val Gly  
1 5 10 15

Asp Glu Trp Trp Pro Lys Gln Gly Asp Ser Lys Gly Arg Ser Gly Gly  
20 25 30

Arg Pro Trp Arg Thr Ala Ala Arg Ser Gly Leu Thr Gly Ala Ser Ser  
35 40 45

Arg Xaa Arg Trp Thr Thr Ala Pro Arg Trp Ile Ser Ala Tyr Pro Ser  
50 55 60

Val Arg Xaa Ala Lys Glu Gly Arg Leu Gln Glu Val Ile Glu Thr Leu  
65 70 75 80

Leu Ser Leu Glu Lys Gln Thr Arg Thr Ala Ser Asp Met Val Ser Thr  
85 90 95

Ser Arg Ile Leu Val Ala Ser Ser Gly Arg Cys Ala Asn Xaa Gly  
100 105 110

<210> 1724

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1724

Gly Arg Gly Arg Cys Glu Xaa Gly Lys Met Ala Ala Ala Val Val  
1 5 10 15

Glu Phe Gln Arg Ala Gln Ser Leu Leu Ser Thr Asp Arg Glu Ala Ser  
20 25 30

Ile Asp Ile Leu His Ser Ile Val Lys Arg Asp Ile Gln Glu Asn Asp  
35 40 45

Glu Glu Ala Val Gln Val Lys Glu Gln Ser Ile Leu Glu Leu Gly Ser  
50 55 60

Leu Leu Ala Lys Thr Xaa Gln Ala Ala Glu Leu  
65 70 75

<210> 1725

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1725

Pro Gly Ser Arg His His Arg Ala Arg Asp Arg Leu Ile His Phe Gly  
1 5 10 15

Ala Val Ser Thr Asp Val Leu Gly Cys Ser Ala His Cys Ser Leu Thr  
20 25 30

Gln Ser Pro Lys Met Asn Ile Gln Glu Gln Gly Phe Pro Leu Asp Leu  
35 40 45

Gly Ala Ser Phe Thr Glu Asp Ala Pro Pro Xaa Pro Ser Ala Trp  
50 55 60

<210> 1726

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1726

Ala Glu Pro Asp Gly Ser His Pro Val Val Xaa Ala Pro Tyr Asn Gly  
1 5 10 15

Gly Pro Ala Gly Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser  
20 25 30

Cys Thr His Leu Gly Ala Gly Pro Pro Leu Gln Gln Trp Pro Pro Ala  
35 40 45

Gly Cys His Thr Asp Phe Pro Leu Gly Thr Ala Xaa Pro Gln Gln Asp  
50 55 60

Leu Pro Arg Thr Leu Gly Leu Glu Gly Ser Ala Glu Gln Gln Gly Thr  
65 70 75 80

Val His Pro Ala Leu Pro Val Ser Xaa Arg Val Ser Ile Pro Thr Arg  
85 90 95

Gly Pro Asn Leu Pro Xaa Xaa Phe Leu Xaa Pro Ile Gln Met Gln Pro  
100 105 110

Xaa Val Xaa Xaa Arg Xaa Ile Asn Gln Gly Val Tyr Ala Asn Arg Xaa  
115 120 125

Leu Asp Ala Lys Gly Gly Pro Ser Gln Arg Gly Xaa Arg Arg Leu Trp  
130 135 140

Ala Pro Glu Lys Asp Arg Gln Pro Xaa Phe Asp Xaa Gly Val Trp Glu  
145 150 155 160

Lys Xaa Ser Lys Lys Gly Phe Ser Xaa Phe  
165 170

&lt;210&gt; 1727

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

50

55

60

Gly Glu His Ile Arg Tyr Ala Thr Asp Thr Phe Ala Gly Leu Cys His  
 65 70 75 80

Gln Leu Thr Asn Ala Leu Val Glu Arg Lys Gln Pro Leu Arg Gly Ile  
 85 90 95

Gly Ile Leu Lys Gln Ala Ile Asp Lys Met Gln Met Asn Thr Asn Gln  
 100 105 110

Leu Thr Ser Ile His Xaa Asp Leu Cys Gln Leu Val Cys  
 115 120 125

&lt;210&gt; 1729

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1729

Ile Leu Thr Met Arg Glu Ile Val His Ile Gln Ala Gly Gln Cys Gly  
 1 5 10 15

Asn Gln Ile Gly Ala Lys Phe Trp Glu Val Ile Ser Asp Glu His Gly  
 20 25 30

His Arg Pro His Arg Ala Pro Thr Thr Gly Asp Ser Asp Leu Pro Ala  
 35 40 45

Gly Thr Ala Xaa Ser Val Tyr  
 50 55

&lt;210&gt; 1730

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1730

Arg Ile Ala Ala Ser Glu Thr Arg Val Ala Pro Ser Val Leu Arg Leu  
 1 5 10 15

Ala Met Thr Ser Tyr Ser Tyr Arg Gln Ser Ser Ala Thr Ser Ser Phe





Val Asp Ile Met Ser Xaa Ala Thr Gln Ala Ile Phe Glu Ile Leu Glu  
35 40 45  
Lys Ser Trp Leu Pro Gln Asn Cys Thr Leu Val Asp Met Lys Ile Glu  
50 55 60  
Phe Gly Val Asp Val Thr Thr Lys Glu Ile Val Leu Ala Asp Val Ile  
65 70 75 80  
Asp Asn Asp Ser Trp Arg Leu Trp Pro Ser Gly Asp Arg Ser Gln Gln  
85 90 95  
Lys Asp Lys Gln Ser Tyr Arg Asp Leu Lys Glu Val Thr Pro Glu Gly  
100 105 110  
Leu Gln Met Val Lys Arg Asn Phe Glu Trp Val Ala Glu Arg Val Glu  
115 120 125  
Leu Leu Leu Lys Ser Xaa Ser Gln Cys Arg Val Val Val Leu Xaa Gly  
130 135 140  
Ser Thr Ser Asp Leu Gly His Cys Glu Lys Ile Gln  
145 150 155

<210> 1732

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1732  
Val Asp Ile Arg Lys Asp Leu Tyr Ala Asn Thr Val Leu Ser Gly Gly  
1 5 10 15  
Thr Thr Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Xaa Glu Ile Thr  
20 25 30  
Ala Leu Ala Pro Ser Thr Met Lys Ile Lys Ile Ile Ala Pro Pro Glu  
35 40 45  
Arg Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Ser  
50 55 60  
Thr Phe Gln Xaa Xaa Trp Ile Thr Ser Arg Ser Thr Thr Xaa Arg Xaa  
65 70 75 80  
Pro Pro Ser Ser Thr Ala Asn Ala Ser Asn Xaa Leu Xaa Xaa Ala Tyr  
85 90 95  
His Cys Cys Met Gly  
100

<210> 1733  
<211> 101  
<212> PRT  
<213> Homo sapiens  
  
<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1733

Ala Arg Arg Arg Gln Lys Gly Pro Ala Ala Pro Glu Ser Lys Pro Val  
1 5 10 15

Pro Ala Gln Ser Arg Pro Ala Ala Val Cys Leu Leu Phe Gln His Asp  
20 25 30

Arg Cys Arg Cys Val Leu Arg Gln Gly Leu Pro Gly Arg Trp Ser Gly  
35 40 45

Arg Ser His Leu Lys Thr Ala Val Xaa Pro Ser Ser Gly Ser Ser Cys  
50 55 60

Cys Cys Ser Cys Asn Ala Ser Lys Gln Ile Thr Ala Asp Lys Gln Cys  
65 70 75 80

Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu Gln Asp Ser  
85 90 95

Val Leu Leu Ala Xaa  
100

<210> 1734

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1734

Ala Arg Val His Leu Glu Leu Gln Glu Ala Arg Val Met Leu Val Pro  
1 5 10 15

Leu Val Asn Val Asp Leu Leu Asp Trp Gln Gly Pro Gln Asp Leu Glu  
20 25 30

Val Glu Leu Val Pro Leu Val Pro Lys Glu Glu Arg Val Leu Leu Val  
35 40 45

Leu Leu Gly His Leu Val Leu Leu Val Leu Leu Val Cys Lys Glu Cys  
50 55 60

Leu Glu Lys Glu Glu Val Leu Glu Val Leu Val Gln Arg Val Thr Arg  
65 70 75 80

Val Asn Gln Ala Val Gln Val Leu Met Val Ser Gln Gly Lys Met Ala  
85 90 95

Gln Gly Val Leu Xaa Val Leu Leu Val Leu Leu Ala Gln Leu Ala Ser  
100 105 110

Leu Glu Ile Lys Gly Glu Gly Gly Ala Pro Gly Phe Pro Xaa Ile Ser  
115 120 125

Trp Thr Cys Gly Xaa Pro Gly Glu Arg Gly Glu Met Ala Xaa Gln Asp  
130 135 140

Xaa Trp Phe Xaa Trp Cys Ser Trp  
145 150

<210> 1735

<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 1735  
Val Arg Ala Arg Val Pro Ser Pro Ala Ala Met Gly Cys Thr Leu  
1 5 10 15  
Ser Ala Glu Asp Lys Ala Ala Val Glu Arg  
20 25

<210> 1736  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1736  
His Glu Val Ser Ala Ala Ser Leu Val Pro Ala Val Pro Gln Pro Glu  
1 5 10 15  
Ala Asp Asn Leu Thr Leu Arg Tyr Arg Ser Leu Val Tyr Gln Leu Asn  
20 25 30  
Phe Asp Gln Thr Leu Arg Asn Val Asp Lys Ala Gly Thr Trp Ala Pro  
35 40 45  
Arg Glu Leu Val Leu Val Val Gln Val His Asn Arg Pro Glu Tyr Leu  
50 55 60  
Arg Leu Leu Leu Asp Ser Leu Arg Lys Ala Gln Gly Ile Asp Asn Val  
65 70 75 80  
Leu Val Ile Phe Ser His Asp Ser Gly Arg Pro Arg Ser Ile Ser  
85 90 95

<210> 1737  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1737  
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met

&lt;400&gt; 1740

Leu Thr Glu Thr Arg Phe Lys Thr Gly Thr Thr Leu Lys Tyr Thr Cys  
1 5 10 15

Leu Pro Gly Tyr Val Arg Ser His Ser Thr Gln Thr Leu Thr Cys Asn  
20 25 30

Ser Asp Gly Glu Trp Val Tyr Asn Thr Phe Cys Ile Tyr Lys Arg Cys  
35 40 45

Arg His Pro Gly Glu Leu Arg Asn Gly Gln Val Glu Ile Lys Thr Asp  
50 55 60

Leu Ser Phe Gly Ser Gln Ile Glu Phe Ser Cys Ser Glu Gly Phe Phe  
65 70 75 80

Leu Ile Gly Ser Thr Thr Ser Arg Cys Glu Val Gln Asp Arg Gly Val  
85 90 95

Gly Trp Ser His Pro Leu Pro Gln Cys Glu Ile Val Gln Val  
100 105 110

&lt;210&gt; 1741

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1741

Gln Val His Leu Asp Gln Val Glu Val Ala Ser Xaa Leu Thr Leu Cys  
1 5 10 15  
Lys Glu Gly Cys Xaa Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val  
20 25 30  
Gly Pro Val Asp Xaa Val Arg Xaa Cys Arg Arg Pro Ser Gly Pro Cys  
35 40 45

Arg

<210> 1742

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1742

Gly Pro Ser Thr Arg Xaa Xaa Met Ile Glu Tyr Asp Pro Glu Arg Arg  
1 5 10 15

Leu Gly Ile Phe Trp Val Ser Cys Glu Ala Gly Thr Tyr Ile Arg Thr  
20 25 30

Leu Cys Val His Leu Gly Leu Leu Leu Gly Val Gly Gly Gln Met Gln  
35 40 45

Glu Leu Arg Arg Val Arg Ser Gly Val Met Ser Xaa Lys Asp His Xaa  
50 55 60

Val Thr Met His Asp Val Leu Xaa Ala Gln Trp Leu Tyr Xaa Asn His  
65 70 75 80

Lys Asp Glu Ser Xaa Leu Arg Gly Val Val  
85 90

<210> 1743

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743

Ala Gly Ser Val Arg Arg Pro Cys Arg Arg Pro Trp Gly Xaa Arg Ala  
1 5 10 15

Gly Glu Arg Met Xaa Gly Ala Gly Glu Glu Asp Pro Ala Ala Ala Phe  
20 25 30

Leu Ala Gln Xaa Arg Ser Glu Ile Ala Gly Ile Glu Asn Asp Glu Ala  
35 40 45

Phe Ala Ile Leu Glu Arg Arg Arg Pro Arg Ala Pro Thr Ala Arg Lys  
50 55 60

Val Arg Arg Gly Val Pro Met Leu Leu Xaa Gly Xaa Met Xaa Trp Trp  
65 70 75 80

Ile Xaa Thr Xaa Lys Leu Met Val Pro Thr Xaa Ile Met Gln Tyr Phe  
85 90 95

Lys Met Asp Arg Leu His Gln Asn Leu Lys Tyr Pro Lys Trp Arg Xaa  
100 105 110

Lys Met Glu Xaa  
115

<210> 1744  
<211> 125  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1744  
Arg Val Thr Thr Gly Thr Xaa Xaa Val Leu Val Ala Val Asp Lys Gly

1                      5                      10                      15  
Val Phe Val Leu Asn Lys Xaa Asn Lys Leu Thr Gln Ser Lys Ile Trp  
                    20                      25                      30  
Asp Val Val Glu Lys Ala Asp Ile Gly Cys Thr Pro Gly Ser Gly Lys  
                    35                      40                      45  
Asp Tyr Ala Gly Val Phe Ser Asp Ala Gly Leu Thr Xaa Thr Ser Ser  
                    50                      55                      60  
Ser Gly Gln Gln Thr Ala Gln Xaa Ala Glu Leu Gln Cys Pro Gln Pro  
                    65                      70                      75                      80  
Ala Ala Arg Arg Arg Xaa Ser Val Gln Leu Thr Glu Lys Arg Met Asp  
                    85                      90                      95  
Lys Val Gly Lys Tyr Pro Lys Glu Leu Xaa Lys Cys Cys Glu Asp Gly  
                    100                      105                      110  
Ile Arg Glu Asn Pro Met Lys Phe Ser Cys Gln Gly Gly  
                    115                      120                      125

&lt;210&gt; 1745

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1745

Gly Ala Ala Val Ser Val Lys Met Ile Glu Val Leu Thr Thr Thr Asp  
1                      5                      10                      15  
Ser Gln Lys Leu Leu His Gln Leu Asn Ala Leu Leu Glu Gln Glu Ser  
                    20                      25                      30  
Arg Cys Gln Pro Lys Val Cys Gly Leu Arg Leu Ile Glu Ser Ala His  
                    35                      40                      45  
Asp Asn Gly Leu Arg Met Thr Ala Arg Leu Arg Asp Phe Glu Val Lys  
                    50                      55                      60  
Asp Leu Leu Ser Leu Thr Gln Phe Leu Ala  
65                      70

&lt;210&gt; 1746

&lt;211&gt; 38

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1746

Phe Phe Gly His Pro Glu Val Tyr Ile Leu Ile Leu Pro Gly Phe Gly  
1 5 10 15

Ile Ile Ser His Ile Val Thr Tyr Tyr Ser Gly Lys Lys Glu Pro Phe  
20 25 30

Gly Tyr Ile Gly Met Val  
35

<210> 1747

<211> 35

<212> PRT

<213> Homo sapiens

<400> 1747

Leu Val Pro Asn Ser Ala Arg Glu Thr Phe Leu Thr Ile Cys Phe Ile  
1 5 10 15

Arg Gln Leu Ile Phe His Phe Thr Ser Lys His His Phe Gly Phe Glu  
20 25 30

Ala Ala Ala  
35

<210> 1748

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (149)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (158)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (168)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (172)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (181)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1748  
Ala Arg Val Glu Asn Arg Ala Gln Gln His Trp Gly Ser Gly Val Gly  
1 5 10 15  
Val Lys Lys Leu Cys Glu Leu Gln Pro Glu Glu Lys Cys Cys Val Val  
20 25 30  
Gly Thr Leu Phe Lys Ala Met Pro Leu Gln Pro Ser Ile Leu Arg Glu  
35 40 45  
Val Ser Glu Glu His Asn Leu Leu Pro Gln Pro Pro Arg Ser Lys Tyr  
50 55 60  
Ile His Pro Asp Asp Glu Leu Val Leu Glu Asp Glu Leu Gln Arg Ile  
65 70 75 80  
Lys Leu Lys Gly Thr Ile Asp Val Ser Lys Leu Val Thr Gly Thr Val  
85 90 95  
Leu Ala Val Phe Gly Ser Val Arg Asp Asp Gly Lys Phe Leu Val Glu  
100 105 110

Asp Tyr Cys Phe Val Asp Leu Ala Pro Gln Lys Pro Xaa Pro Pro Leu  
115 120 125

Thr Gln Leu Gly Xaa Val Xaa Gly Val Arg Pro Gly Pro Gly Trp Arg  
130 135 140

Trp Arg Arg Glu Xaa Val Gly His Pro Leu Leu Val Asp Xaa Val Thr  
145 150 155 160

Gly Gln Phe Gly Asp Glu Gly Xaa His Ala Xaa Xaa Pro Ser Phe Pro  
165 170 175

Val Ile Leu Val Xaa Thr Ser  
180

<210> 1749  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 1749  
His Glu Ala Glu Ala Ala Pro Val Gly Arg Ala Arg Gly Cys Cys Lys  
1 5 10 15

Ala Glu Val Ala Ala Glu Ala Glu Thr Met Phe Arg Ala Ala Ala Pro  
20 25 30

Gly Gln Leu Arg Arg Ala Ala Ser Leu Leu Arg Phe Gln Ser Thr Leu  
35 40 45

Val Ile Ala Glu His Ala Asn Asp Ser Leu Ala Pro Ile Thr Leu Asn  
50 55 60

Thr Ile Thr Ala Ala Thr Arg Leu Gly Gly Glu Val Ser Cys Leu Val  
65 70 75 80

Ala Gly Thr Lys Cys Asp Lys Val Ala Gln Asp Leu Cys Lys Val Ala  
85 90 95

Gly Ile Ala Lys Ser Ser Gly Gly Ser Ala  
100 105

<210> 1750  
<211> 99  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 1750

Arg Ser Cys Gly Val Thr Ala Gln Lys Tyr Arg Cys Glu Leu Leu Tyr  
1 5 10 15

Glu Gly Pro Pro Asp Asp Glu Ala Ala Met Gly Ile Lys Ser Cys Asp  
20 25 30

Pro Lys Gly Pro Leu Met Met Tyr Ile Ser Lys Met Val Pro Thr Ser  
35 40 45

Asp Lys Gly Arg Phe Tyr Ala Phe Gly Arg Val Phe Ser Gly Leu Val  
50 55 60

Ser Thr Gly Leu Lys Val Arg Ile Met Gly Pro Asn Tyr Thr Pro Gly  
65 70 75 80

Lys Lys Glu Asp Leu Tyr Leu Lys Pro Ile Gln Arg Thr Ile Leu Met  
85 90 95

Met Gly Arg

&lt;210&gt; 1751

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1751

Ala Ala Gln Pro Arg Leu Met Glu Pro Ile Tyr Leu Val Glu Ile Gln  
1 5 10 15

Cys Pro Glu Gln Val Val Gly Gly Ile Tyr Gly Val Leu Asn Arg Lys  
20 25 30

Arg Gly His Val Phe Glu Glu Ser Gln Val Ala Gly Thr Pro Met Phe  
35 40 45

Val Val Lys Ala Tyr Leu Pro Val Asn Glu Ser Phe Gly Phe Thr Ala  
50 55 60

Asp Leu Arg Ser Asn Thr Gly Gly Gln Ala Phe Pro Gln Cys Val Phe  
65 70 75 80

Asp His Trp Gln Ile Leu Pro Gly Asp Pro Phe Asp Asn Ser Ser Arg  
85 90 95

Pro Ser Gln Val Val Ala Glu Thr Arg Lys Arg Lys Gly Leu Lys Glu  
100 105 110

Gly Ile Pro Ala Leu Asp Asn Phe Leu Asp Lys Leu  
 115 120

<210> 1752

<211> 180

<212> PRT

<213> Homo sapiens

<400> 1752

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Gln Phe Ala Arg  
 20 25 30

Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp Thr Ala Asp Thr Met Gly  
 35 40 45

Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu Gln Val Leu Asn Asp Tyr  
 50 55 60

Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr Val Pro Ser Gln Ala Asp  
 65 70 75 80

Val Ala Val Phe Glu Ala Val Ser Ser Pro Pro Pro Ala Asp Leu Cys  
 85 90 95

His Ala Leu Arg Trp Tyr Asn His Ile Lys Ser Tyr Glu Lys Glu Lys  
 100 105 110

Ala Ser Leu Pro Gly Val Lys Lys Ala Leu Gly Lys Tyr Gly Pro Ala  
 115 120 125

Asp Val Glu Asp Thr Thr Gly Ser Gly Ala Thr Asp Ser Lys Asp Asp  
 130 135 140

Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp Glu Glu Glu Ser Glu Glu  
 145 150 155 160

Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala Gln Tyr Glu Ser Lys Lys  
 165 170 175

Ala Lys Lys Pro  
 180

<210> 1753



<211> 126  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753  
Arg Xaa Lys Xaa Xaa Xaa Thr Ala Val Arg Xaa Ser Arg Leu Val Asp  
1 5 10 15  
Pro Pro Gly Cys Arg Asn Trp His Glu Val Ser Phe Cys Asp Leu Cys  
20 25 30  
Trp Asp Trp Lys Met Ser Ser Gly Asn Ala Lys Ile Gly His Pro Ala  
35 40 45  
Pro Asn Phe Lys Ala Thr Ala Val Met Pro Asp Gly Gln Phe Lys Asp  
50 55 60  
Ile Ser Leu Ser Asp Tyr Lys Gly Lys Tyr Val Val Phe Phe Phe Tyr  
65 70 75 80  
Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile Ile Ala Phe Ser  
85 90 95  
Asp Arg Ala Glu Glu Phe Lys Lys Leu Asn Cys Gln Val Ile Gly Ala  
100 105 110

Ser Val Asp Ser His Phe Cys His Leu Ala Trp Val Asn Thr  
115 120 125

<210> 1754

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1754

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Ser Xaa Gly Gly Xaa Leu  
1 5 10 15

Val His Pro Xaa Xaa Val Xaa Xaa Ala Ala His Cys Leu Lys Lys Asn  
20 25 30

Ser Gln Xaa Trp Leu Gly Arg His Asn Leu Xaa Glu Pro Xaa Asp Thr  
35 40 45

Xaa Gln Arg Val Pro Xaa Ser His Ser Phe Pro His Pro Leu  
50 55 60

<210> 1755

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1755

Glu Xaa Cys Val Ser Xaa Leu Gly Cys Trp Arg Phe Asn Pro Gln Cys  
 1 5 10 15

Phe His Xaa Asn Arg Gly Pro Ile Lys Phe Asn Val Xaa Gly His Ser  
 20 25 30

Arg Pro Gly Glu Phe Arg Gly Leu Glu Xaa  
 35 40

&lt;210&gt; 1756

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1756

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Gly Met Gln Lys  
 20 25 30

Ala Asp Val Tyr Ser Phe Gly Ile Ile Leu Gln Glu Ile Ala Leu Arg  
 35 40 45

Ser Gly Pro Phe Tyr Leu Glu Gly Leu Asp Leu Ser Pro Lys Glu Ile  
 50 55 60

Val Gln Lys Val Arg Asn Gly Gln Arg Pro Tyr Phe Arg Pro Ser Ile  
 65 70 75 80

Asp Arg Thr Gln Leu Asn Glu Glu Leu Val Leu Leu Met Glu Arg Cys  
 85 90 95

Trp Ala Gln Asp Pro Ala Glu Arg Pro Asp Phe Gly Gln Ile Lys Gly  
 100 105 110

Phe Ile Arg Arg Phe Asn Lys Glu Gly Gly Thr Ser Ile Leu Asp Asn  
 115 120 125

Leu Leu Leu Arg Met Glu Gln Tyr Ala Asn Asn Leu Glu Lys Leu Val

130

135

140

Glu Glu Arg Thr Gln Ala Tyr Leu Glu Glu Lys Arg Lys Ala Glu Ala  
 145 150 155 160

Leu Leu Tyr Gln Ile Leu Pro His Ser Val Ala Glu Gln Leu  
 165 170

&lt;210&gt; 1757

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1757

Glu Thr Xaa Lys Xaa Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro  
 1 5 10 15

Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly  
 20 25 30

Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys Leu Gly Glu  
35 40 45

Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr Glu Lys Lys  
50 55 60

Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala Ala Tyr Arg  
65 70 75 80

Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val Lys Ala Glu  
85 90 95

Lys Ser Lys Lys Lys Lys Glu Glu Glu Glu Asp Glu Glu Asp Glu Glu  
100 105 110

Asp Glu Glu Glu Glu Asp Glu Glu Asp Glu Xaa Xaa Xaa His Xaa  
115 120 125

<210> 1758

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1758

Ala Arg Glu Asn Val Arg Pro Asp Tyr Leu Lys Ala Ile Trp Asn Val  
1 5 10 15

Ile Asn Trp Glu Asn Val Thr Glu Arg Tyr Met Ala Cys Lys Lys  
20 25 30

<210> 1759

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1759

Arg Glu Gln Lys Xaa Glu Leu His Arg Gly Ala Xaa Arg Ser Arg Thr  
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Ser Ala Arg Gln  
20 25 30

Arg Xaa Lys Val Leu Ala His Phe Tyr Gly Val Lys Leu Glu Gly Lys  
35 40 45

Val Pro Met His Lys Leu Phe Leu Glu Met Leu Glu Ala Met Met Asp  
50 55 60

<210> 1760

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1760

Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln  
1 5 10 15

Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val  
20 25 30

Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr  
35 40 45

Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro  
50 55 60

Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser  
65 70 75 80

Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser  
85 90 95

Asp Ser Gly Ser Asp Asp Ser Lys Gln Arg  
100 105

<210> 1761

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1761

Ala Pro Ala Ser Pro Leu Leu Glu Met Asp Pro Asn Cys Ser Cys Ala  
1 5 10 15

Thr Gly Gly Ser Cys Thr Cys Ala Gly Ser Cys Lys Cys Lys Glu Cys  
20 25 30

Lys Cys Thr Ser Cys Lys Lys Ser Cys Cys Ser Cys Cys Pro Val Gly  
35 40 45

Cys Ala Lys Cys Ala Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys  
50 55 60

Cys Ser Cys Cys Ala  
65

<210> 1762

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1762

Pro Cys Lys Gly Ser Ile Ile Thr Trp Ser Leu Ile Xaa Asp Leu Tyr  
1 5 10 15

Glu Trp Leu His Glu Gly Ser Ser Xaa Leu Leu Leu Leu Thr Ser Glu  
20 25 30

Asn Asp Leu Xaa Xaa Lys Arg Arg Ala  
35 40

&lt;210&gt; 1763

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1763

Pro Thr Arg Pro Pro Thr Arg Pro Pro Ser Pro Asn Met Ala Ala Ser  
1 5 10 15

Ala Lys Lys Lys Asn Lys Lys Gly Lys Thr Ile Ser Leu Thr Asp Phe  
20 25 30

Leu Ala Glu Asp Gly Gly Thr Gly Gly Gly Ser Thr Tyr Val Ser Lys  
35 40 45

Pro Val Ser Trp Ala Asp Glu Thr Asp Asp Leu Glu Gly Asp Val Ser  
50 55 60

Thr Thr Trp His Ser Asn Asp Asp Asp Val Tyr Arg Ala Pro Pro Ile  
65 70 75 80

Asp Arg Ser Ile Leu Pro Thr Ala Pro Arg Ala Ala Arg Glu Pro Asn  
85 90 95

Ile Asp Arg Ser Arg Leu Pro Lys Ser Pro Pro Tyr Thr Ala Phe Leu  
100 105 110

Gly Asn Leu Pro Tyr Asp Val Thr Glu Glu Ser Ile Lys Glu Phe Phe  
115 120 125

Arg Gly Leu Asn Ile Ser Ala Val Arg Leu Pro Arg Glu Pro Ser Asn  
130 135 140

Pro Glu Xaa Leu Lys Gly Leu Gly Met Leu

145

150

&lt;210&gt; 1764

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1764

Ala Xaa Xaa Phe Pro Tyr Thr Val Asp Asn Ala Arg Ile Val Leu Xaa  
1 5 10 15

Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Gly Xaa Tyr Glu  
20 25 30

Thr Asp Leu Ala Met Arg Xaa Ser Val Xaa Asn Asp Ile His Gly Leu  
35 40 45

Arg Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Xaa Leu Glu Thr  
50 55 60

Glu Ile Glu Xaa Leu Xaa Glu Asp Leu Leu Phe Met Xaa Xaa Asn His  
65 70 75 80

<210> 1765

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1765

Phe Gly Thr Arg Arg Asn Val Lys Leu Ile Ala Leu Ser Ile Asp Ser  
1 5 10 15

Val Glu Asp His Leu Ala Trp Ser Lys Xaa Ile Asn Ala Tyr Asn Cys  
20 25 30

Glu Glu Pro Thr Glu Lys Leu Pro Phe Pro Ile Ile Asp Asp Arg Asn  
35 40 45

Arg Glu Leu Ala Ile Leu Leu Gly Met Leu Asp Pro Ala Arg Glu Gly  
50 55 60

<210> 1766

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1766

Ile Arg His Glu Gln Ala Ala Ser Ser Pro Glu Pro Thr Gly Cys Leu  
1 5 10 15

Leu Ser Gln Arg Arg Pro Leu Ile Thr Val Ala Met Pro Gly Gly Leu  
20 25 30

Leu Leu Gly Asp Val Ala Pro Asn Phe Glu Ala Asn Thr Thr Val Gly  
35 40 45

Arg Ile Arg Phe His Asp Phe Leu Gly Asp Ser Trp Gly Ile Leu Phe  
50 55 60

Ser His Pro Arg Asp Phe Thr Pro Val Cys Thr Thr Glu Leu Gly Arg  
65 70 75 80

Ala Ala Lys Trp His Gln Asn Leu Xaa Arg Gly Met Leu Ser  
85 90

<210> 1767

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1767

Gly Val Ser Cys Thr Xaa Pro Val Leu Gln Val Gln Arg Val Gln Met  
1 5 10 15  
His Leu Leu Gln Glu Glu Leu Leu Leu Leu Pro Cys Gly Cys Ala  
20 25 30  
Lys Cys Ala Gln Gly Cys Ile Cys Lys Gly Ala Ser Glu Lys Cys Ser  
35 40 45  
Cys Cys Ala  
50

&lt;210&gt; 1768

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1768

Gln Arg Thr Xaa Gly Asn Xaa Xaa Ala Cys Arg Tyr Arg Thr Gly Ile  
1 5 10 15  
Pro Gly Ser Thr His Ala Ser Gly Arg Gly His Gly Leu Ile Ala Val  
20 25 30  
Cys Ala Leu His Ser Val Pro His Ser Pro Pro Thr Thr Cys Leu Ala  
35 40 45  
Glu Arg Thr Pro Cys Arg Arg Pro Ala Glu Met Leu Arg Leu Pro Thr  
50 55 60  
Val Phe Arg Gln Met Arg Pro Val Ser Arg Val Leu Ala Pro His Leu  
65 70 75 80

Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe Gly Ala Asp Ala Arg Ala  
85 90 95

Leu Met Leu Gln Gly Val Asp Leu Leu Ala Asp Ala Val Ala Val Thr  
100 105 110

Met Gly Pro Lys Gly Arg Thr Val Ile Ile Glu Gln Ser Trp Gly Ser  
115 120 125

Pro Lys Val Thr Arg Asp Gly Val Thr Val Ala Lys Ser Leu Thr  
130 135 140

<210> 1769

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1769

Asn Ser Ala Arg Ala Cys Xaa Ala Glu Arg Thr Xaa Cys Arg Arg Pro  
1 5 10 15

Ala Glu Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val  
20 25 30

Ser Arg Val Leu Ala Pro His Leu Xaa Arg Ala Tyr Ala Lys Xaa Val  
35 40 45

Lys Phe Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu  
50 55 60

Leu Ala Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val  
65 70 75 80

Ile Ile Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val  
85 90 95

Thr Val Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly  
100 105 110

Ala Lys Xaa Val Gln Asp Val Ala Xaa Asn Thr Ile Glu Glu Leu Gly  
115 120 125

Met Ala Xaa Pro Cys Tyr Cys Tyr Gly Thr Ser Ile Ala Lys Glu Gly  
130 135 140

Phe Glu Lys Val Ser Lys Val Leu Ile His Gly Asn Gln Glu Arg Cys  
145 150 155 160

Asp Val Xaa Val Asp Ala Val Leu  
165

<210> 1770

<211> 148

<212> PRT

<213> Homo sapiens

<400> 1770

Gly Ala Glu Ala Phe Gly Ala Ala Lys Met Pro Asp Tyr Leu Gly Ala  
 1 5 10 15  
 Asp Gln Arg Lys Thr Lys Glu Asp Glu Lys Asp Asp Lys Pro Ile Arg  
 20 25 30  
 Ala Leu Asp Glu Gly Asp Ile Ala Leu Leu Lys Thr Tyr Gly Gln Ser  
 35 40 45  
 Thr Tyr Ser Arg Gln Ile Lys Gln Val Glu Asp Asp Ile Gln Gln Leu  
 50 55 60  
 Leu Lys Lys Ile Asn Glu Leu Thr Gly Ile Lys Glu Ser Asp Thr Gly  
 65 70 75 80  
 Leu Ala Pro Pro Ala Leu Trp Asp Leu Ala Ala Asp Lys Gln Thr Leu  
 85 90 95  
 Gln Ser Glu Gln Pro Leu Gln Val Ala Arg Cys Thr Lys Ile Ile Asn  
 100 105 110  
 Ala Asp Ser Glu Asp Pro Lys Tyr Ile Ile Asn Val Lys Gln Phe Ala  
 115 120 125  
 Lys Phe Val Val Asp Leu Ser Asp Gln Val Ala Pro Thr Asp Ile Glu  
 130 135 140  
 Glu Gly Met Arg  
 145

<210> 1771

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1771

Gly Arg Met Ala Glu Ser Ser Asp Lys Leu Tyr Arg Val Glu Tyr Ala  
 1 5 10 15  
 Lys Ser Gly Arg Ala Ser Cys Lys Lys Cys Ser Glu Thr Ser Pro Arg  
 20 25 30  
 Thr Arg Ser Gly Trp Xaa Ser Trp Cys Ile Ala His Val  
 35 40 45



<210> 1772  
<211> 81  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772  
Leu Glu Ala Glu Xaa Ser Leu Ser Arg Gly Asp Trp Tyr Lys Thr Lys  
1 5 10 15

Glu Ile Leu Leu Lys Gly Pro Asp Trp Ile Leu Gly Glu Ile Lys Thr  
20 25 30

Ser Gly Leu Arg Gly Arg Gly Gly Ala Gly Phe Pro Asn Gly Leu Lys  
35 40 45

Trp Xaa Phe Met Ile Arg Pro Gln Met Ala Gly Pro Ser Ile Trp Trp  
50 55 60

Xaa Asn Ala Asn Glu Gly Gly Ala Gly Xaa Leu Xaa Glu Pro Gly Gly  
65 70 75 80

Phe

<210> 1773  
<211> 145  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1773  
Cys Glu Lys Thr Thr Glu Gly Ala Leu Pro Ser Ser Thr Ala Ala Ala  
1 5 10 15  
Ser Phe Phe Cys Arg Ser Trp Cys Cys Leu Cys Ala Arg Leu Val Arg  
20 25 30  
Thr Trp Tyr Leu Phe Cys Glu Ala Ala Ala Glu Glu Thr Pro Ala Leu  
35 40 45  
Ala Met Ala Asp Glu Lys Pro Lys Glu Gly Val Lys Thr Glu Asn Asn  
50 55 60  
Asp His Ile Asn Leu Lys Val Ala Gly Gln Asp Gly Ser Val Val Gln  
65 70 75 80  
Phe Lys Ile Lys Arg His Thr Pro Leu Ser Lys Leu Met Lys Ala Tyr  
85 90 95  
Cys Glu Arg Gln Gly Leu Ser Met Lys Gln Ile Arg Phe Arg Phe Xaa  
100 105 110  
Gly Gln Pro Ile Asn Xaa Thr Asp Thr Pro Ala Gln Leu Gly Asn Gly  
115 120 125  
Arg Met Lys Ile Pro Met Met Cys Ser Lys Gln Gln Thr Gly Gly Val  
130 135 140

Tyr  
145

<210> 1774  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1774  
 His Ala Ser Ala His Ala Ser Ala Pro Leu Ala Met Ala Ser Leu Thr  
   1                  5                  10                  15  
 Val Lys Ala Tyr Leu Leu Gly Lys Glu Asp Ala Ala Arg Glu Ile Arg  
           20                  25                  30  
 Arg Phe Ser Phe Cys Cys Ser Pro Glu Pro Glu Ala Gly Ser Xaa Ala  
       35                  40                  45  
 Ala Ala Gly Pro Gly Pro Leu Arg Ala Ala Ala Glu Pro Gly Gly Arg  
       50                  55                  60  
 Pro Val Pro Arg Ala Ala Ala Trp Arg Leu Ser Arg Arg Thr Thr Ala  
   65                  70                  75                  80  
 Ile Glu Asp Gly Asp Leu Leu Leu Phe Ser Ile Asp Glu Asp Leu Thr  
           85                  90                  95  
 Trp Ala Cys Ser Thr Leu Lys Met Asn Leu Xaa Asp Phe Xaa Phe Xaa  
       100                  105                  110

Glu Lys Xaa Phe Pro Ala Gly Thr Arg Gln  
115 120

<210> 1775  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1775  
Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg  
1 5 10 15

Asn Glu Leu Arg Val Ala Pro Glu Glu His Pro Thr Leu Leu Thr Glu

20 25 30

Ala Pro Leu Asn Pro Lys Ala Asn Arg Glu Lys Met Thr Gln Ile Met  
35 40 45

Phe Glu Thr Phe Asn Val Gln Ala Met Xaa Leu Ala Ile Gln Ala Val  
50 55 60

Leu Ser Leu Tyr Ala Ser Gly Xaa Thr Met Glu Ser Cys Trp Thr Leu  
65 70 75 80

Glu Met Val Ser Pro Xaa Met Ser Gln Xaa Met Arg Ala Met Leu Xaa  
85 90 95

Pro Met Gln Xaa Met Gly Leu Xaa Leu  
100 105

<210> 1776

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1776

Pro Leu Arg Gly Asn Val Val Pro Ser Pro Leu Pro Thr Arg Xaa Thr  
1 5 10 15

Arg Thr Phe Ser Ala Thr Val Arg Ala Ser Xaa Gly Pro Val Tyr Lys  
20 25 30

Gly Val Cys Lys Cys Phe Xaa Arg Ser Lys Gly His Gly Phe Xaa Xaa  
35 40 45

Pro Ala Asp Gly Gly Pro Asp Ile Phe Leu His Ile Phe Glu Xaa Xaa  
50 55 60

Arg Gly Ser Met Xaa Xaa Trp Lys Ala Thr Arg Ser Xaa Ile Lys Cys  
65 70 75 80

Ala Ser Ile Pro Pro Lys Xaa Glu Lys Leu Gln Ala Val Gly Val Arg  
85 90 95

His Gln Ser Pro Gly Thr Arg Xaa Gln Val  
100 105

<210> 1777  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 1777  
Gly Leu Asp Met Phe Ser Phe Val Asp Leu Arg Leu Leu Leu Leu Leu  
1 5 10 15  
Ala Ala Thr Ala Leu Leu Thr His Gly Gln Glu Glu Gly Gln Val Glu  
20 25 30  
Gly Gln Asp Glu Asp Ile Pro Pro Ile Thr Cys Val Gln Asn Gly Leu  
35 40 45  
Arg Tyr His Asp Arg Asp Val Trp Lys Pro Glu Pro Cys Arg Ile Cys  
50 55 60  
Val Cys Asp Asn Gly Lys Val Leu Cys Asp Asp Val Ile Cys Asp Glu  
65 70 75 80  
Thr Lys Asn Cys Pro Gly Ala Glu Val Pro  
85 90

<210> 1778  
<211> 64  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1778  
Ile Ile Xaa Asn Thr Glu Asn Leu Val Arg Glu Leu Leu Thr Val Pro  
1 5 10 15  
Asp Asn Tyr Xaa Val Ile Xaa Leu Ala Xaa Lys Trp Val Arg Pro Ile  
20 25 30  
Xaa Cys Cys Pro Leu Xaa Leu Ile Gly Leu Lys Ala Xaa Lys Cys Ala  
35 40 45  
Asp Tyr Val Val Thr Gly Thr Trp Ser Ala Lys Gly Ala Xaa Lys Thr  
50 55 60

<210> 1779  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE



<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1779

Trp Leu Ser Ser Thr Ala Met Tyr Ser Ala Ala Gly Arg Asp Leu Gly  
1 5 10 15

Met Glu Pro His Arg Ala Ala Gly Pro Leu Pro Ala Ala Asn Phe Arg  
20 25 30

Pro Asp Val Phe Asn Gly Gly Asp Tyr Thr Gly Gln Leu Leu Glu Lys  
35 40 45

Ile Leu Pro Ile Val Ala Ser Glu Tyr Ser Ile Xaa  
50 55 60

<210> 1780

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1780

Thr Leu Xaa Leu His Lys Ile Gln Lys Leu Arg Trp Ala Trp Cys Cys  
1 5 10 15

Xaa Pro Ile Val Pro Leu Leu Val Gly Leu Arg Gln Glu Asp His Leu  
20 25 30

Ser Pro Gly Gly Arg Gly Tyr Xaa Ala Pro Arg Val His Tyr Cys Thr

35

40

45

Pro Ala Arg Ala Arg Arg Ala Arg Pro Cys Xaa Lys  
50 55 60

&lt;210&gt; 1781

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1781

Gly Cys Arg Val Asn Gln Ala Ala Val Xaa Trp His Glu Gln Val Xaa  
1 5 10 15

Trp Leu Ser Glu Xaa Arg Xaa Gly Glu Thr Val Tyr Tyr Arg Leu Leu  
20 25 30

Pro Xaa Lys Asn Val Xaa Xaa Arg Xaa Ala Arg Gly Leu Val Phe Lys  
35 40 45

Glu Cys Arg Gln Ser Ala Ser Met Xaa Arg Val Leu Ala Val Tyr Gly  
50 55 60

Val Lys Arg  
65

<210> 1782

<211> 152

<212> PRT

<213> Homo sapiens.

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1782

Arg Pro Thr Arg Pro Leu Thr Ser Thr Xaa Ala Val Gly Lys Asn Lys  
1 5 10 15

Arg Leu Thr Lys Gly Gly Lys Lys Gly Ala Lys Lys Lys Val Val Asp  
20 25 30

Pro Phe Ser Lys Lys Asp Trp Tyr Asp Val Lys Ala Pro Ala Met Phe  
35 40 45

Asn Ile Arg Asn Ile Gly Lys Thr Leu Val Thr Arg Thr Gln Gly Thr  
50 55 60

Lys Ile Ala Ser Asp Gly Leu Lys Gly Arg Val Phe Glu Val Ser Leu  
65 70 75 80

Ala Asp Leu Gln Asn Asp Glu Val Ala Phe Arg Lys Phe Lys Leu Ile  
85 90 95

Thr Glu Asp Val Gln Gly Lys Asn Cys Leu Thr Asn Phe His Gly Met  
100 105 110

Asp Leu Thr Arg Asp Lys Met Cys Ser Met Val Lys Lys Trp Xaa Thr  
115 120 125

Met Ile Glu Ala His Val Asp Val Lys Thr Thr Asp Gly Tyr Leu Leu  
130 135 140

Arg Cys Ser Xaa Xaa Xaa Xaa Leu  
145 150

<210> 1783

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1783

His Arg Val Arg Gln Arg Xaa Pro Thr Leu Ala Arg Ala Met Ala Ser  
1 5 10 15

Val Ser Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp  
20 25 30

Glu Val Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala  
35 40 45

Gly Val Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu  
50 55 60

Ala Asn Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly  
65 70 75 80

Pro Xaa Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser  
85 90 95

Thr Ala Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu  
100 105 110

Glu Ser Glu Glu Ser Tyr Asp Asp Met Gly Phe Gly Leu Phe Asp  
115 120 125

&lt;210&gt; 1784

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1784

Gly Ser Ala Ala Gly Ser Thr Ala Xaa Ser Leu Leu Ser Thr Gly Xaa  
 1 5 10 15

Pro Arg Pro Thr Arg Pro Asp Lys Ala Arg Arg Leu Gly Tyr Lys Ala  
 20 25 30

Lys Gln Gly Tyr Val Ile Tyr Arg Ile Arg Val Arg Arg Gly Gly Arg  
 35 40 45

Lys Arg Pro Val Pro Lys Gly Ala Thr Tyr Gly Lys Pro Val His His  
 50 55 60

Gly Val Xaa Xaa Leu Lys Phe Ala Arg Ser Leu Gln Ser Val Ala Glu  
 65 70 75 80

Glu Arg Ala Gly Arg His Cys Gly Ala Leu Arg Val Leu Asn Ser Tyr  
 85 90 95

Trp Val Gly Glu Asp  
 100

&lt;210&gt; 1785

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1785

Ala Lys Met Gly Ala Tyr Lys Tyr Ile Gln Glu Leu Trp Arg Lys Lys  
 1 5 10 15

Gln Ser Asp Val Met Arg Phe Leu Leu Arg Val Arg Cys Trp Gln Tyr  
 20 25 30

Arg Gln Leu Ser Ala Leu His Arg Ala Pro Arg Pro Thr Arg Pro Asp  
 35 40 45

Lys Ala Arg Arg Leu Gly Tyr Lys Ala Lys Gln Gly Tyr Val Ile Tyr  
 50 55 60

Arg Ile Arg Val Arg Arg Gly Gly Arg Lys Arg Pro Val Pro Lys Gly  
 65 70 75 80

Ala Ile Thr Ala Ser Leu Ser Ile Met Val Leu Thr Ala Lys Val Cys  
85 90 95

Ser Lys Pro Ser Val Arg Cys Arg Gly Ala Ser Trp Thr Pro Leu Trp  
100 105 110

Gly Ser Glu Ser Pro Glu Phe Leu Leu Gly Trp  
115 120

<210> 1786

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1786

Ile Xaa Ile Lys Xaa Thr Xaa Thr Xaa Gly Xaa Lys Leu Xaa Leu His  
1 5 10 15

Arg Gly Gly Gly Arg Ser Ser Thr Ser Gly Ser Pro Gly Ser Ala Gly  
20 25 30

Ile Arg His Glu Arg Xaa Lys Arg Asp Asp Glu Gly Thr Ser Ser Phe  
35 40 45

Gly Lys Arg Arg Asn Lys Thr His Xaa Leu Cys Arg Arg Cys Gly Ser  
50 55 60

Lys Ala Tyr His Leu Gln Lys Ser Thr Cys Gly Lys Cys Gly Tyr Pro  
65 70 75 80

Ala Lys Arg Lys Arg Lys Tyr Asn Trp Ser Ala Lys Ala Lys Arg Arg  
85 90 95

Asn Thr Thr Gly Thr Gly Arg Met Arg His Leu Lys Ile Val Tyr Arg  
100 105 110

Arg Phe Arg His Gly Phe Arg Glu Gly Thr Thr Pro Lys Pro Lys Arg  
115 120 125

Ala Ala Val Ala Ala Ser Ser Ser Ser  
130 135

<210> 1787

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787



Leu Xaa Leu Thr Lys Gly Xaa Lys Ser Trp Gly Ser Thr Ala Val Thr  
 1 5 10 15  
 Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg  
 20 25 30  
 Gly Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly Ile Val Gly  
 35 40 45  
 Lys Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met Val Lys Lys  
 50 55 60  
 Ile Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe Cys Gly Lys  
 65 70 75 80  
 Thr Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys Gly Ser Cys  
 85 90 95  
 Met Lys Thr Val Ala Gly Gly Ala Trp Thr Tyr Asn Thr Thr Ser Ala  
 100 105 110  
 Val Thr Val Lys Ser Ala Ile Arg Arg Leu Lys Glu Leu Lys Asp Gln  
 115 120 125

&lt;210&gt; 1788

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1788

Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly Ile Val Gly Lys  
 1 5 10 15  
 Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met Val Lys Lys Ile  
 20 25 30  
 Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe Cys Gly Lys Thr  
 35 40 45  
 Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys Gly Ser Cys Met  
 50 55 60  
 Lys Thr Val Ala Gly Gly Ala Trp Thr Tyr Asn Thr Thr Ser Ala Val  
 65 70 75 80  
 Thr Val Lys Ser Ala Ile Arg Arg Leu Lys Glu Leu Lys Asp Gln

85

90

95

<210> 1789  
<211> 113  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1789  
Gln Ser Leu Gly Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly  
1 5 10 15  
Ile Val Gly Lys Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met  
20 25 30  
Val Lys Lys Ile Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe  
35 40 45  
Cys Gly Lys Thr Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys  
50 55 60

Gly Ser Cys Met Lys Thr Val Xaa Gly Gly Xaa Trp Thr Tyr Asn Thr  
65 70 75 80  
Thr Ser Ala Val Thr Val Lys Val Arg His Gln Lys Xaa Glu Gly Val  
85 90 95  
Glu Arg Pro Leu Asp Val Pro Xaa Xaa Phe Gly Thr Ser Leu Xaa Tyr  
100 105 110

Asn

<210> 1790  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 1790  
Ile Pro Cys Leu Lys Pro Lys Asn Phe Gly Ile Gly Gln Asp Ile Gln  
1 5 10 15

Pro Lys Arg Asp Ser Pro Ala Leu  
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<210> 1791  
<211> 70  
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<400> 1791

Arg Arg Cys Ala Leu Arg Ala Val Asp Phe Ala Glu Arg Asn Gly Tyr  
1 5 10 15

Ile Lys Gly Ile Val Lys Asp Ile Ile His Asp Pro Gly Arg Gly Xaa  
20 25 30

Pro Leu Ala Lys Val Val Phe Arg Asp Pro Xaa Arg Leu Arg Ser Xaa  
35 40 45

Xaa Glu Leu Phe Ile Ala Ala Glu Gly Ile His Thr Gly Gln Phe Val  
50 55 60

Tyr Cys Arg Lys Lys Ala  
65 70

<210> 1792

<211> 110

<212> PRT

<213> Homo sapiens

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<400> 1792  
 Gly Arg Val Xaa Arg Pro Thr Arg Pro Xaa Glu Xaa Arg Gly Gly Gly  
   1                  5                  10                  15  
 Gly Leu Gly Ala Phe Lys Ile Gln Leu His Xaa Xaa Ala Thr Gly Met  
           20                  25                  30  
 Ala Glu Glu Gly Ile Ala Ala Gly Gly Val Met Asp Val Asn Thr Ala  
       35                  40                  45  
 Leu Gln Glu Val Leu Lys Thr Ala Leu Xaa His Asp Gly Leu Ala Arg

50

55

60

Gly Ile Arg Glu Ala Ala Lys Ala Leu Asp Lys Arg Gln Ala His Leu  
65 70 75 80

Cys Xaa Leu Ala Ser Asn Xaa Asp Glu Pro Met Tyr Xaa Lys Xaa Xaa  
85 90 95

Glu Ala Leu Xaa Ala Glu His Gln Xaa Asn Leu Ile Lys Gly  
100 105 110

&lt;210&gt; 1793

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1793

Leu Val Pro Asn Ser Ala Arg Ala Ala Ile Met Gly Arg Met His Ala  
1 5 10 15

Pro Gly Lys Gly Leu Ser Gln Ser Ala Leu Pro Tyr Arg Arg Ser Val  
20 25 30

Pro Thr Trp Leu Lys Leu Thr Ser Asp Xaa Xaa Lys Glu Gln Ile Tyr  
35 40 45

Lys Leu Ala Lys Lys Gly Leu Thr Pro Ser Gln Ile Gly Val Ile Leu  
50 55 60

Arg Asp Ser His Gly Val Ala Gln Val Arg Phe Val Thr Gly Asn Lys  
65 70 75 80

Ile Leu Arg Ile Leu Lys Ser Lys Gly Leu Ala Pro  
85 90

&lt;210&gt; 1794

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1794

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Ile Ala Ile Val Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1             5             10             15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
      20             25             30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
      35             40             45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
      50             55             60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
      65             70             75             80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
      85             90             95

His Gly Leu Tyr Glu Lys Lys Lys Thr
      100             105

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&lt;210&gt; 1795

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1795

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Val Asp Pro Arg Val Arg Tyr Asp Thr Lys Gly Arg Phe Ala Val His
 1             5             10             15

Arg Ile Thr Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys
      20             25             30

Ile Phe Val Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala
      35             40             45

Arg Thr Ile Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile
      50             55             60

Gln Ile Asp Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp
      65             70             75             80

Thr Gly Asn Leu Cys Met Val Thr Gly Gly Ala Asn
      85             90

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<210> 1796  
 <211> 130  
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<220>  
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 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1796

Gly Ile Phe Arg Asp Asn Trp His Lys Arg Arg Lys Thr Gly Gly Lys  
 1 5 10 15

Arg Lys Pro Tyr His Lys Lys Arg Lys Tyr Glu Leu Gly Arg Pro Ala  
 20 25 30

Ala Asn Thr Lys Ile Gly Pro Arg Arg Ile His Thr Val Arg Val Arg  
 35 40 45

Gly Gly Asn Lys Lys Tyr Arg Ala Leu Arg Leu Asp Val Gly Asn Phe  
 50 55 60

Ser Trp Gly Ser Glu Cys Cys Thr Arg Lys Thr Arg Ile Ile Asp Val  
 65 70 75 80

Val Tyr Asn Ala Ser Asn Asn Glu Leu Xaa Arg Thr Lys Thr Leu Val  
 85 90 95

Lys Asn Cys Ile Xaa Leu Ile Asp Ser Thr Pro Tyr Arg Gln Trp Tyr  
 100 105 110

Xaa Val Pro Leu Cys Ala Ala Pro Gly Pro Gln Glu Gly Ser Gln Ala  
 115 120 125

Asp Ser  
 130



<210> 1797  
<211> 106  
<212> PRT  
<213> Homo sapiens

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<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1797

Pro Arg Ala Gly Gly Cys Gly Gly Ser Gly Arg Val Thr Ala Cys Leu  
1 5 10 15

Cys Ala Cys Ala Thr Leu Val Trp Pro Pro Arg Phe Gln Glu Val Leu  
20 25 30

Leu Val Leu Ser Gly Leu Val His Ala Arg Gly Cys Thr Tyr Xaa Gln  
35 40 45

Leu Trp Ser Arg Ser His Pro Phe Cys Cys Xaa Arg Gly Pro Leu Ala  
50 55 60

Met Ala Gly Ile Leu Phe Glu Asp Ile Phe Asp Val Lys Asp Ile Xaa  
65 70 75 80

Pro Glu Gly Lys Lys Phe Xaa Arg Val Ser Arg Xaa His Cys Glu Ser  
85 90 95

Glu Xaa Xaa Arg Trp Xaa Xaa Thr Lys Xaa  
100 105

<210> 1798

<211> 140

<212> PRT

<213> Homo sapiens

<220>

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<222> (13)

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<222> (14)

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<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1798

Lys	Xaa	Xaa	Glu	Pro	Xaa	Xaa	Arg	Ile	Glu	Arg	Ala	Xaa	Xaa	Xaa	Xaa	1	5	10	15
Leu	Lys	Lys	Ser	Gly	Lys	Leu	Lys	Val	Pro	Glu	Trp	Val	Asp	Thr	Val	20	25	30	
Lys	Leu	Ala	Lys	His	Lys	Glu	Leu	Ala	Pro	Tyr	Asp	Glu	Asn	Trp	Phe	35	40	45	
Tyr	Thr	Arg	Ala	Ala	Ser	Thr	Ala	Arg	His	Leu	Tyr	Leu	Arg	Gly	Gly	50	55	60	
Ala	Gly	Val	Gly	Ser	Met	Thr	Lys	Ile	Tyr	Gly	Gly	Arg	Gln	Arg	Asn	65	70	75	80
Gly	Val	Met	Pro	Ser	His	Phe	Ser	Arg	Gly	Ser	Lys	Ser	Val	Ala	Arg	85	90	95	
Arg	Val	Leu	Gln	Ala	Leu	Glu	Gly	Leu	Lys	Met	Val	Glu	Lys	Asp	Gln	100	105	110	
Asp	Gly	Gly	Arg	Lys	Leu	Thr	Pro	Gln	Gly	Gln	Arg	Asp	Leu	Asp	Arg	115	120	125	
Ile	Ala	Gly	Gln	Val	Ala	Ala	Ser	Asn	Lys	Lys	His					130	135	140	

<210> 1799  
<211> 126  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (126)  
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<400> 1799  
Val Asp Pro Arg Val Arg Lys Thr Val Xaa Glu Leu Asp Lys Gly Met  
1 5 10 15  
Gln Glu Arg Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser Leu Pro Gln  
20 25 30  
Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile Asn Glu Ala  
35 40 45  
Ser Trp Thr Met Lys Leu Val Leu Ser Cys Val Pro Glu Pro Thr Val  
50 55 60  
Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala Leu  
65 70 75 80  
Leu Ser Ser Ser Ser Ala Arg Glu Leu Arg Gly Ala Cys Leu Pro Asn  
85 90 95  
Gln Cys Ala Val Pro Ala Lys Asp Arg Val Glu Leu Arg Leu Thr Pro  
100 105 110  
Met Phe Thr Pro Lys Asp Cys Lys Asn Arg Gly Cys Cys Xaa  
115 120 125

<210> 1800  
<211> 140  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (123)

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<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1800

Gly Tyr Leu His Ser Leu Asn Ile Val Tyr Arg Asp Leu Lys Pro Glu  
1 5 10 15

Asn Ile Leu Leu Asp Ser Gln Gly His Ile Val Leu Thr Asp Phe Gly  
20 25 30

Leu Cys Lys Glu Asn Ile Glu His Asn Ser Thr Thr Ser Thr Phe Cys  
35 40 45

Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu His Lys Gln Pro Tyr  
50 55 60

Asp Arg Thr Val Asp Trp Trp Cys Leu Gly Ala Phe Leu Tyr Glu Met  
65 70 75 80

Leu Tyr Gly Leu Pro Pro Phe Tyr Ser Arg Asn Thr Ala Glu Met Tyr  
85 90 95

Asp Asn Ile Leu Asn Lys Pro Leu Gln Leu Lys Pro Asn Ile Thr Asn  
100 105 110

Ser Ala Arg His Leu Leu Glu Gly Leu Leu Xaa Lys Asp Xaa Thr Lys  
115 120 125

Arg Leu Gly Gly Xaa Gly Asp Phe Met Glu Ile Lys  
130 135 140

<210> 1801

<211> 92

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (92)

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<400> 1801

Ala Thr Met Pro Gln Tyr Gln Thr Trp Glu Glu Phe Ser Arg Ala Ala  
1 5 10 15

Glu Lys Leu Tyr Leu Ala Asp Pro Met Lys Ala Arg Val Val Leu Lys  
20 25 30

Tyr Arg His Ser Asp Gly Asn Leu Cys Val Lys Val Thr Asp Asp Leu  
35 40 45

Val Cys Leu Val Tyr Lys Thr Asp Gln Ala Gln Asp Val Lys Lys Ile  
50 55 60

Glu Lys Phe His Ser Gln Leu Met Arg Leu Ile Val Xaa Gln Gly Ala  
65 70 75 80

Xaa Asn Leu Pro Trp Glu Leu Ser Glu Trp Phe Xaa  
85 90

<210> 1802

<211> 176

<212> PRT

<213> Homo sapiens

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<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1802

Arg Gly Ala Xaa Arg Ser Arg Thr Ser Gly Ser Pro Gly Xaa Ala Gly

1

5

10

15

Ile Arg Xaa Arg Xaa Val Ser Gln Lys Thr Val Ile Ile Lys Glu Glu  
                   20                  25                  30  
 Glu Glu Asp Thr Ala Glu Lys Pro Gly Lys Glu Glu Asp Val Val Thr  
           35                  40                  45  
 Pro Lys Pro Xaa Lys Arg Lys Arg Asp Gln Ala Glu Glu Glu Pro Asn  
       50                  55                  60  
 Arg Ile Pro Ser Arg Xaa Leu Arg Arg Thr Lys Leu Asn Gln Glu Ser  
   65                  70                  75                  80  
 Thr Ala Pro Lys Val Leu Phe Thr Gly Val Val Asp Ala Arg Gly Xaa  
                   85                  90                  95  
 Arg Ala Val Leu Ala Trp Gly Glu Ile Trp Leu Val His Gly Gln Ser  
       100                  105                  110  
 Phe Pro Xaa Val His Gly Ser His Pro Pro Asp Ile Gln Phe Leu Cys  
       115                  120                  125  
 Gly Pro Gly Ala Gly Xaa Ser Pro Phe Cys Ser Xaa Asp Gly Trp His  
       130                  135                  140  
 His Ser Arg Gln Ala Gly Phe Leu Leu Thr Pro Asp Glu Tyr Val Val  
   145                  150                  155                  160  
 Asn Asp Xaa Ala Pro Xaa Glu Glu Phe Gly Phe Thr Phe Lys Thr His  
           165                  170                  175

&lt;210&gt; 1803

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1803

Gly Ser Leu Ala Val Thr Lys Asn Asp Gly His Tyr Arg Gly Asp Pro  
   1                  5                  10                  15  
 Asn Trp Phe Met Lys Tyr Val Ala Pro Arg Glu Leu Gly Ser Pro His  
       20                  25                  30  
 Gly Val Gly Gly Gly Leu Phe  
       35



<210> 1804

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1804

Gly Ser Leu Leu Ser Pro Asp Met Ala Asn Lys Gly Pro Ser Tyr Gly  
1 5 10 15

Met Ser Arg Glu Val Gln Ser Lys Ile Glu Lys Lys Tyr Asp Glu Glu  
20 25 30

Leu Gly Gly Ala Ala Gly Gly Val Gly Pro  
35 40

<210> 1805

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

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<221> SITE

<222> (114)

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<222> (117)

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<222> (130)

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<220>

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<222> (163)

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&lt;400&gt; 1805

Phe Gly Thr Arg Leu Asp Gln Ile Arg Gln Arg Glu Ser Asp Ile Thr  
 1 5 10 15  
 Lys Glu Arg Ile Gln Lys Ile Leu Ala Thr Gly Ala Asn Val Ile Leu  
 20 25 30  
 Thr Thr Gly Gly Ile Asp Asp Met Cys Leu Lys Tyr Phe Val Glu Ala  
 35 40 45  
 Gly Ala Met Ala Val Arg Arg Val Leu Lys Arg Asp Leu Lys Arg Ile  
 50 55 60  
 Ala Lys Ala Ser Gly Ala Thr Ile Leu Ser Thr Leu Ala Asn Leu Glu  
 65 70 75 80  
 Gly Glu Glu Thr Phe Glu Ala Ala Met Leu Gly Gln Ala Glu Glu Val  
 85 90 95  
 Val Gln Glu Arg Phe Cys Asp Asp Glu Leu Ile Leu Ile Xaa Ile Pro  
 100 105 110  
 Arg Xaa Asp Gly Xaa Ile Gly Phe Phe Arg Gly Ala Lys Phe Ser Arg  
 115 120 125  
 Xaa Xaa Gly Gly Gly Leu Xaa Lys Xaa Leu Phe Gly Xaa Xaa Phe Gly  
 130 135 140  
 Xaa Ile Gly Xaa Pro Gly Val Leu Lys Xaa Xaa Xaa Pro Lys Ile Xaa  
 145 150 155 160  
 Pro Gly Xaa Asp Leu  
 165

&lt;210&gt; 1806

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

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<222> (18)  
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<222> (28)  
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<222> (79)  
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<220>  
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<220>  
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<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1806  
Ile Ala Gly Lys Leu Gln Asp Gly Leu Leu Xaa Ile Thr Xaa Xaa Ser  
1 5 10 15

Phe Xaa Ala Pro Trp Asn Ser Leu Ser Leu Ala Xaa Ala Gly Ala Ser  
20 25 30

Pro Arg Pro Thr Leu Leu Ala Val Arg Asn Ala Gln Cys Phe Pro Val  
35 40 45

Tyr Pro Ser Pro Val Lys Leu Gln Ser Gly Thr His Cys Leu Trp Thr  
50 55 60

Asp Gln Leu Leu Gln Gly Ser Glu Lys Gly Phe Gln Phe Pro Xaa Thr  
65 70 75 80

Leu Xaa Gly Leu Thr Ser Gly Ser Xaa Gly Leu  
85 90

<210> 1807  
<211> 123  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (102)  
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<400> 1807  
Ala Arg Pro Ser Arg Arg Arg Arg Arg Arg Arg Arg Pro Leu Gly Leu  
1 5 10 15  
Ala Met Ser Ser Ser Pro Val Lys Arg Gln Arg Met Glu Ser Ala Leu  
20 25 30  
Asp Gln Leu Lys Gln Phe Thr Thr Val Val Ala Asp Thr Gly Asp Phe  
35 40 45  
His Ala Ile Asp Glu Tyr Lys Pro Gln Asp Ala Thr Thr Asn Pro Ser  
50 55 60  
Leu Ile Leu Ala Ala Ala Gln Met Pro Ala Tyr Gln Glu Leu Val Glu  
65 70 75 80  
Glu Ala Ile Ala Tyr Gly Arg Lys Leu Gly Gly Ser Gln Glu Asp Gln  
85 90 95  
Ile Lys Asn Ala Ile Xaa Lys Leu Phe Val Leu Phe Gly Ala Glu Ile  
100 105 110  
Leu Lys Lys Ile Pro Gly Arg Val Ser Thr Glu  
115 120

<210> 1808  
<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
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<221> SITE  
<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1808

Arg Leu Arg Gly Gly Cys Ser Val Leu Ser Val Gln Ala Ala Ala Gly  
1 5 10 15

Leu Ser Gln Arg Arg Pro Pro Phe Thr Leu Arg Ala Arg Ser Pro Ala  
20 25 30

Val Leu Pro Phe Arg Cys Pro Pro Cys His His Asp Gly Thr Gly His  
35 40 45

Leu Leu Arg Gln Arg Leu Leu Gly Arg Xaa Ile Ala Ala Ala Ile Ser  
50 55 60

Lys Thr Ala Val Ala Pro Ile Glu Arg Val Lys Leu Leu Leu Gln Val  
65 70 75 80

Gln His Ala Ser Lys Gln Ile Ala Ala Asp Lys Gln Tyr Lys Gly Ile  
85 90 95

Val Asp Cys Ile Val Arg Ile Pro Arg Ser Arg Arg Val Ser Phe Trp  
100 105 110

Arg Xaa Thr Leu Gln Arg His Arg Tyr Phe Pro Xaa Lys Pro Gln Phe  
115 120 125

Ala Ser Arg  
130

<210> 1809

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1809

Asp Trp Ser Lys Val Val Leu Ala Tyr Glu Pro Val Trp Ala Ile Gly  
1 5 10 15

Thr Gly Lys Thr Ala Thr Pro Gln Gln Ala Gln Glu Val His Glu Lys  
20 25 30

Leu Arg Gly Trp Leu Lys Ser Asn Val Ser Asp Ala Val Ala Xaa Ser  
35 40 45

Thr Arg Ile Ile Tyr Gly Gly Ser Val Thr Gly Ala Thr Cys Lys Glu  
50 55 60

Leu Ala Ser Gln Pro Asp Val Asp Gly Phe Leu Val Gly Gly Ala Ser  
65 70 75 80

Leu Lys Pro Glu Phe Val Asp Ile Ile Asn Ala Lys Gln  
85 90

<210> 1810

<211> 150

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (89)

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<223> Xaa equals any of the naturally occurring L-amino acids



<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810

Ile	Arg	His	Glu	Gly	Arg	Gly	Ile	Xaa	Ile	Glu	Arg	Val	Val	Ser	Ser	
1				5				10						15		
Glu	Gly	Gly	Arg	Pro	Ser	Val	Asp	Leu	Ser	Phe	Gln	Pro	Ser	Lys	Pro	
			20					25					30			
Leu	Ser	Lys	Ser	Ser	Ser	Ser	Pro	Glu	Leu	Gln	Thr	Leu	Gln	Asp	Ile	
		35					40					45				
Leu	Gly	Asp	Pro	Gly	Asp	Lys	Ala	Asp	Val	Gly	Arg	Xaa	Ser	Pro	Xaa	
	50					55					60					
Val	Lys	Ala	Arg	Ser	Gln	Ser	Gly	Xaa	Leu	Asp	Gly	Glu	Ser	Xaa	Ala	
	65				70					75					80	
Trp	Ser	Val	Ser	Gly	Glu	Asp	Ser	Xaa	Xaa	Gln	Pro	Glu	Gly	Pro	Leu	
				85					90					95		
Thr	Ser	Arg	Xaa	Pro	Arg	Phe	Ala	Gln	Val	Xaa	Ser	Gly	Pro	Val	Gly	
			100					105					110			
Tyr	Asn	Ile	Xaa	Xaa	Xaa	Xaa	Pro	Ser	Arg	Xaa	Gly	Lys	Xaa	Leu	Glu	
		115					120					125				
Arg	Asp	Ala	Leu	Arg	Ala	Glu	His	Ser	Xaa	Ile	Gln	Arg	Ser	Ser	Arg	
		130					135					140				
Ile	Thr	Xaa	Phe	Val	Ser											
	145				150											

<210> 1811

<211> 189

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811

Gly	Arg	Xaa	Gln	Pro	Ser	Leu	Lys	Gly	Thr	Lys	Ala	Gly	Ala	Pro	Pro	1	5	10	15
Arg	Cys	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	20	25	30	
Gly	Thr	Ser	Glu	Asp	Glu	Ile	Asn	Arg	Arg	Thr	Ala	Ala	Glu	Asn	Glu	35	40	45	
Phe	Val	Val	Leu	Lys	Lys	Asp	Val	Asp	Ala	Ala	Tyr	Met	Ser	Lys	Val	50	55	60	
Glu	Leu	Glu	Ala	Lys	Val	Asp	Ala	Leu	Asn	Asp	Glu	Ile	Asn	Phe	Leu	65	70	75	80
Arg	Thr	Leu	Asn	Glu	Thr	Glu	Leu	Thr	Glu	Leu	Gln	Ser	Gln	Ile	Ser	85	90	95	
Asp	Thr	Ser	Val	Val	Leu	Ser	Met	Asp	Asn	Ser	Arg	Ser	Leu	Asp	Leu	100	105	110	
Asp	Gly	Ile	Ile	Ala	Glu	Val	Lys	Ala	Gln	Tyr	Glu	Glu	Met	Ala	Lys	115	120	125	
Cys	Ser	Arg	Ala	Glu	Ala	Glu	Ala	Trp	Tyr	Gln	Thr	Lys	Phe	Glu	Thr	130	135	140	
Leu	Gln	Ala	Gln	Ala	Gly	Lys	His	Gly	Asp	Asp	Leu	Arg	Asn	Thr	Arg	145	150	155	160
Asn	Xaa	Ile	Ser	Glu	Met	Asn	Arg	Ala	Xaa	Gln	Arg	Leu	Gln	Ala	Glu	165	170	175	
Ile	Xaa	Asn	Ile	Lys	Asn	Gln	Arg	Ala	Lys	Leu	Glu	Ala	180	185					

<210> 1812  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812  
Leu Leu Ala Ser Leu Ala Asn Leu Ala Leu Pro Xaa Xaa Ile Asn Leu  
1 5 10 15  
Leu Gly Glu Leu Ser Val Ala Ser Asn Xaa Val Leu Leu Ile Lys Tyr  
20 25 30  
His Ser Pro Thr Tyr Arg Asn Ser Thr Tyr  
35 40

<210> 1813  
<211> 121  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1813

Trp	Pro	Pro	Val	Leu	Ala	Phe	Leu	Gly	Cys	Val	Trp	Ser	Leu	Gly	Pro
1				5				10						15	

Cys	Leu	Trp	Gly	Lys	Ser	Asn	Arg	Thr	Leu	Ala	Leu	Pro	Lys	Met	Lys
			20					25					30		

Gly	Glu	Glu	Met	Gly	Leu	Leu	Phe	Leu	Ser	Pro	Glu	Trp	Glu	Arg	Ser
			35				40					45			

Ser	Gly	Gly	Trp	Ser	Phe	Ser	Thr	Glu	Glu	Gly	Ser	Leu	Lys	Ala	Leu
	50					55					60				

Leu	Thr	Ser	Cys	Cys	Thr	Phe	Cys	Ile	Ser	Leu	His	Ala	His	Cys	Leu
65					70					75					80

Phe	Leu	Phe	Leu	Ala	Leu	Ala	Pro	Val	Pro	Val	Pro	Ala	Pro	Ala	Asn
				85					90					95	

Ala	Lys	Met	Gln	Met	His	Xaa	Leu	Ala	Xaa	Arg	Val	Xaa	Ala	Gly	Leu
			100					105						110	

Ser	Cys	Glu	Xaa	Gly	Gly	Trp	Ala	Xaa
		115					120	

&lt;210&gt; 1814

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1814

Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu
1			5				10					15	

Xaa	Xaa	Pro	Xaa	Ser	Ala	Pro	His	Xaa	Ser	Ser	Pro
		20					25				

<210> 1815

<211> 79

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (23)

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<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1815

Ile	Arg	Xaa	Ser	Gly	Asn	Ala	Asn	Xaa	Glu	Asn	Gly	Glu	Gln	Glu	Ala
1				5					10					15	

Asp Asn Glu Val Asp Glu Xaa Glu Glu Glu Gly Gly Glu Glu Glu Glu

20 25 30  
Glu Glu Glu Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu  
35 40 45  
Glu Ala Glu Xaa Ser Tyr Gly Pro Ser Gly Gln Leu Lys Met Met Arg  
50 55 60  
Met Thr Met Ser Ile Pro Arg Ser Arg Arg Pro Thr Arg Met Thr  
65 70 75

<210> 1816  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 1816  
Lys Leu Lys Pro Gly Ala Ile Asp Ile Val Pro Gln Gly Lys Met Lys  
1 5 10 15

Asn Tyr Asn Gln Ala  
20

<210> 1817  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 1817  
Gly Lys Arg Gly Glu Ala Phe Pro Arg Ser Ser Gln Arg Trp Arg Phe  
1 5 10 15

Gly Arg Gly Phe Gly Gly Cys Ser Arg Phe Ala Gly Thr Leu Val Ile  
20 25 30

Ser Leu Ala Pro Leu Leu Pro Ala His Ser Pro Gly Leu Ala Gln Tyr  
35 40 45

Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe Asp Val Pro Asp Arg Asn  
50 55 60

Arg Ala Arg Gly Thr Ala Lys Thr Thr Val Gly Ser  
65 70 75

<210> 1818

<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE





Cys Trp Leu Gln Arg Ile Asp Xaa Leu Asp Gly Xaa  
65 70 75

<210> 1819  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1819  
Arg Met Phe Leu Leu Pro Lys Asn Val Lys Pro Thr Met Glu Asp Trp  
1 5 10 15

Gly Arg Gly Gly Met Lys Tyr Lys Ile Met Ile Ile Tyr Thr Glu Leu  
20 25 30

Gly Phe Phe Met Phe Cys Lys Lys Val Phe Ile Ser  
35 40

<210> 1820  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820  
Xaa Ser Gly Ile Gly Arg Gly Ala Leu Arg Leu Lys Ser Phe Thr Ser  
1 5 10 15

Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa  
20 25 30

Lys Lys Xaa Xaa  
35

<210> 1821  
<211> 32  
<212> PRT  
<213> Homo sapiens

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1821  
Xaa Asn Thr Leu Xaa Gly Val Lys Met Lys Ile Xaa Thr Gln Asp Met  
1 5 10 15

Asn Ile Phe Ser Cys Asn Leu Thr Ile Lys Ala Phe Ser His Thr Xaa  
20 25 30

<210> 1822  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>

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<220>  
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<222> (4)  
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<220>  
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<220>  
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<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1822  
Gly Xaa Gly Xaa Asn Pro Ala Ser Thr Lys Asn Thr Lys Lys Lys Lys  
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys  
20 25 30

Lys Lys Xaa Lys Xaa Xaa Xaa  
35

<210> 1823  
<211> 118  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
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<400> 1823  
Xaa Asn Xaa Ser Ile Thr His Cys Thr His Gln Gly Lys Pro Gly Tyr  
1 5 10 15

Ala Xaa Gln Val Thr Gly Xaa Gly Asn Ser Arg Val Asp Pro Arg Val  
20 25 30

Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Ser Cys His  
35 40 45

Asp Leu Tyr Leu Met Val Phe Ile Ser Arg Val His Leu Arg Glu Ala  
50 55 60

Thr Leu Ser Ser Arg Ala Gln Met Glu Arg Arg Phe Cys Ala Val Gly  
65 70 75 80

Ser Xaa Leu Pro Arg Ser Gly Val Arg Glu Glu Asn Tyr Pro Ala Gly  
85 90 95

Phe Asn Leu Phe His Pro Val Cys Ser Pro Gly Val Ala Ser Ala Leu  
100 105 110

Arg Thr Ile Arg Phe Thr  
115

<210> 1824  
<211> 95  
<212> PRT  
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<220>  
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<220>  
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<220>  
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<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1824  
Asp Gln Gly Cys Ser Val Arg Ala Pro Pro Arg His Asp Phe Leu Gln  
1 5 10 15  
Leu Ser Pro Val Val Gly His Val Val Leu Arg Arg Pro Gly Arg Arg  
20 25 30  
Leu Arg Gly Val Leu Gly Arg Gly Ser Pro Phe Ala Arg Pro Ala Phe  
35 40 45  
Thr Gly Ala Pro Ala Ala Ala Ala Tyr Pro Xaa Pro Pro Pro Ala Leu  
50 55 60  
Cys Pro Arg Pro Pro Arg Gly Pro Thr Xaa Val Xaa Lys Xaa Gly Val  
65 70 75 80

Leu Asn Arg Xaa Xaa Thr Gly Cys Trp Ala Gly Asn Glu Glu Ala  
85 90 95

<210> 1825

<211> 17

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

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<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1825

Xaa Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val Leu Gln Pro  
1 5 10 15

Arg

<210> 1826

<211> 69

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1826

Thr Cys Arg Ala Leu Leu Arg Arg Xaa Ala Val Phe Gln Pro Ser Pro  
1 5 10 15

Asn Ala Phe Phe Arg Cys Val Ser Glu Asp Leu Gly Phe Ala Val Leu  
20 25 30

Xaa Thr Gln Leu Met Leu Xaa Xaa Leu Arg Phe Thr Gly Phe Ile Thr  
35 40 45

Val Gly Ile Thr Pro Lys Ala Ser Pro Leu His Val Thr Glu His Val  
50 55 60

Leu Asn Gln Arg Ser  
65

<210> 1827

<211> 167

<212> PRT

<213> Homo sapiens

<220>

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<220>  
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<220>  
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<222> (146)  
<223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (159)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1827

Gly Glu Ala Phe Gly Ser Thr Leu Trp Asp Gly Pro Trp Arg Ala Leu  
 1 5 10 15

Pro Xaa Xaa Xaa Gly Trp Arg Arg Lys Arg Pro Ile Trp Gly Trp Gly  
 20 25 30

Pro Pro Ser Pro Trp Asn Xaa Ser Gly Ser Asp Ala Trp Cys Ala Trp  
 35 40 45

Ser Thr Arg Glu Leu Val Arg Asp Val Ala Lys Met Leu Pro Thr Leu  
 50 55 60

Gly Gly Glu Arg Lys Gly Ser Pro Arg Ile Leu Pro Arg Xaa Pro Pro  
 65 70 75 80

Arg Lys Leu Gly Xaa Leu Phe Leu Pro Gly Ala Gln Gly Thr His Tyr  
 85 90 95

Leu Xaa Pro Pro Xaa Val Trp Ala Gln Thr Arg Phe Pro Xaa Thr Xaa  
 100 105 110

Gln Xaa Leu Leu Ala Ser Pro Phe Pro Xaa Xaa Lys Lys Lys Gln Lys  
 115 120 125

Gly Gly Gly Lys Lys Arg Gly Xaa Leu Gly Gly Pro Phe Lys Gly Pro  
 130 135 140

Pro Xaa Xaa Arg Phe Pro Phe Leu Lys Ile Gly Lys Asn Pro Xaa Gly  
 145 150 155 160

Val Pro Ser Ser Pro Pro Phe  
 165

&lt;210&gt; 1828

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (20)  
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<220>  
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<222> (22)  
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<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828  
Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg  
1 5 10 15

Arg Xaa Val Xaa Asn Xaa Xaa  
20

<210> 1829  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<222> (9)

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<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1829

Xaa	Arg	Xaa	Lys	His	Met	Xaa	Phe	Xaa	Phe	Xaa	Leu	Thr	Leu	Xaa	Leu
1				5				10						15	

Pro	Thr	Ser	Xaa	Pro	Glu	Gln	His	Xaa	Ser	Cys	Phe	Asp	Thr	His	Leu
			20					25					30		

His	Leu	Tyr
		35

<210> 1830

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1830  
Pro Arg Ser Pro Arg Val Leu His His Val Ser Val Leu Trp Gly Gly  
1 5 10 15  
Ser Lys Gly Pro Trp Ser Trp Pro Arg Pro Arg His Arg Glu Arg Leu  
20 25 30  
Asp Phe Leu Ser Leu Cys Ala Glu Xaa Leu Arg Trp Arg Pro Leu Ser  
35 40 45  
Leu Thr Gln Gln Leu Lys His Thr Ile Ser Gly Ser Xaa Trp Leu Pro  
50 55 60  
His Pro Leu Xaa Cys Pro Leu Xaa Ser Xaa  
65 70

<210> 1831  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1831

Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser  
1 5 10 15

Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Leu Arg Asp Xaa  
20 25 30

Gly Asn Xaa Lys Tyr Phe Arg Ala Arg Met Xaa  
35 40

&lt;210&gt; 1832

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1832

Glu Asn Leu Phe Ile Tyr Cys Leu Leu Val Met Gly Gly Glu Gly Arg  
1 5 10 15

Phe Lys Gly Pro Gly Thr Trp Glu Pro Ser His Arg Asp Gln Arg Gly  
20 25 30

Leu Ser Leu Asn Thr Thr Gly Val Tyr Ser Gly Ser Ser Thr Gln Leu  
35 40 45

Leu Gly Ser Cys Pro Asn Gly Pro Pro Leu Gln His Pro Ser Trp Arg  
50 55 60

Arg Gly  
65

&lt;210&gt; 1833

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1833

Ser Phe Pro Arg Thr Thr Gly Val Ser Ser Leu Ile Val Cys Tyr Ala  
1 5 10 15

Met Xaa His Leu Lys Gln Tyr Phe Ile Leu Leu Phe Phe Xaa Lys Thr  
20 25 30

Gln Asn Thr Cys Asn Xaa Lys Pro  
35 40

&lt;210&gt; 1834

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1834

Ala Xaa Arg Val Gly Gly Thr His Ala Ser Val Asp Pro Arg Val Arg  
1 5 10 15

Asp Leu Gly Asn Tyr Pro Asn Lys Leu Xaa Ser Pro Leu Ser Cys Gln  
20 25 30

Tyr Trp Asn Cys Ser Ser Gln Val Phe Ala Xaa Ile Ser His Pro Glu  
35 40 45

Arg Lys Asn Asp Arg Glu Asn Leu Cys Ser Asp Thr Thr Asp Ser Tyr  
50 55 60

Ile Val Glu Gln Tyr Leu Ser

65

70

&lt;210&gt; 1835

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1835

Ile	Cys	Pro	Gln	Asn	Pro	Leu	Asn	Pro	Leu	Gly	Asn	Leu	Thr	Gly	Ser
1				5					10					15	

Pro	Lys	Arg	Asn	Ser	Ser	Leu	Asp	Thr	Arg	Lys	Lys	Pro	Trp	Arg	Glu
			20					25					30		

Ser	Lys	Lys	Phe	Asn	Thr	His	Ser	Arg	Pro	Lys	Ser	Xaa	His	Gln	Leu
		35					40					45			

Arg	Lys	Arg	Ser	Ser	Ser	Thr	Pro	Thr	Thr
	50					55			

&lt;210&gt; 1836

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1836

Val	Cys	Trp	Pro	Val	Gly	Phe	Gly	Thr	Ser	Phe	Ser	Glu	Arg	Arg	Arg
1				5					10					15	

Lys	Leu	Pro	Trp	Leu	Glu	Pro	Cys	Ser	Ala	Gly	Lys	Gly	Val	Trp	Arg
			20					25					30		

Pro	Leu	Leu	Gly	Lys	Trp	Arg	Thr	Ser	Gly	Ala	Glu	Glu	Ala	Cys
		35				40					45			

Xaa	Arg	Lys	Val	Ser	Arg	Ile	His	His	Lys	Arg	Ala	Thr	Arg	Ala	Trp
	50						55					60			

Lys Lys Leu Lys Thr Cys Tyr Pro Pro Ser Leu Leu His Pro Gly Thr  
65 70 75 80

<210> 1837

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1837

Gly Xaa Gly Arg Glu Arg Glu Arg Thr Ser Leu Val Phe Phe Phe Phe  
1 5 10 15

Phe Phe Gly Xaa Lys Ile Xaa Phe  
20

<210> 1838

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838

His	Glu	Gly	Glu	Ile	Ala	Val	Leu	Ala	Ser	Gly	Ala	Arg	Arg	Leu	Glu
1				5					10					15	

Leu	Leu	Arg	Pro	Arg	Gly	Asn	Arg	Ser	Gly	Thr	Pro	Xaa	Gly	Gly	Glu
		20						25					30		

Ala	Ser	Arg	Ser	Leu	Arg	Asp	Thr	Lys	Ala	Pro	Ala	Thr	Arg	Trp	Leu
		35					40						45		

Gln	Leu	Gly	Arg	Gly	Arg	Gln	Asp	Asp	Gly	Ser	Gly	Phe	Gly	Ser	Val
	50					55					60				

Thr	Arg	Arg	Pro	Glu	Gly	Ala	Gly	Pro	Ala	Xaa	Ser	Ala	Arg	Ala	Pro
65					70					75					80

Ala	Leu	Ala	Asp	Arg	Asp	Leu	Arg	Pro	Xaa	Met	Gly	Lys	Lys	Ala	Glu
			85						90					95	

Ala	Arg	Ala	Pro	Ile	Leu	Phe	Gly	Glu	Lys	Gln	Ala	Ser	Leu	Xaa	Ser
		100						105						110	

Phe	Gly	Ile	Arg	Lys	Phe	Xaa	Thr	Trp	Xaa	Lys	Trp	Cys	Val	Val	
	115						120					125			

<210> 1839

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1839

Ala	Arg	Ala	Cys	Ser	Ser	His	Trp	Cys	Asp	Ser	Ser	Ile	Pro	Phe	Ala
1				5				10						15	

Arg	Asn	Gly	Pro	Gln	Leu	Leu	Leu	Arg	His	Trp	Trp	Leu	Leu	His	Val
			20					25						30	

Arg	Arg	Leu	Leu	Gln	Xaa	Gln	Arg	Val	Gln	Met	Xaa	Leu	Leu	Gln	Xaa
		35					40							45	

Glu	Leu	Leu	Phe	Leu	Xaa	Pro	Arg	Gly
	50						55	

<210> 1840

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840

Gln	Gln	His	Arg	Arg	Gly	Ser	Arg	Glu	Xaa	Pro	Ala	Leu	Leu	Ala	Pro
1				5					10					15	

Arg	Xaa	Gly	Ile	Ser	Phe	Thr	Lys	Pro	Thr	Arg	Leu	Trp	Xaa	Pro	Arg
			20					25					30		

Xaa

<210> 1841

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1841

Ala	Arg	Gly	Gln	Ser	Ala	Trp	Xaa	Thr	Ala	Leu	Xaa	Pro	Trp	Tyr	Cys
1				5					10					15	

Met	His	Ala	Met	Leu	Ala	Ala	Pro	Phe	Pro	Ser	Trp	Ala	Pro	Arg	Val
			20					25						30	

Ser	Pro	Asp	Pro	Gly	Ser	Gln	Val	Cys	Ser	His	Leu	His	Leu	Pro	His
		35					40					45			

Ser	Pro	Pro	Leu	Pro	Ser	Ser	Arg	His	Leu	His	Ala	His	Leu	Val	Leu
		50				55						60			

Ser His Arg Pro Gln Lys Gly Gly His Glu Gly Thr Ser Leu Ala Glu  
65 70 75 80

Leu Gly Gly Ala Gly  
85

<210> 1842

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1842

His Ala Thr Cys Asn Ser Leu His Asp Pro Phe Cys Ile Phe Lys Pro  
1 5 10 15

Lys Leu Ser Ala Ser Val Ala Phe Gln Gly Asn Lys Glu Ser Asn Cys  
20 25 30

Gly Leu Asp Phe Val Ser Phe Phe Gln Asn Leu Ser Phe Ile Gln Phe  
35 40 45

Pro Ser Ile Ile Ile Tyr Phe Tyr Leu Glu Val Ser Lys Glu Val Phe  
50 55 60

<210> 1843

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1843

Ser	Trp	Cys	Phe	Ser	Glu	Ile	Ile	Tyr	Ile	Phe	Xaa	Ser	Gln	Gly	Leu
1				5					10					15	

Thr	Val	Ser	Pro	Arg	Leu	Glu	Ala	Glu	Val	Val	Ala	Arg	Ala	Glu	Phe
			20					25						30	

Asp	Ile	Lys	Leu	Ile	Asp	Thr	Val	Asp	Leu	Glu	Xaa	Gly	Ala	Arg	Tyr
		35					40					45			

Pro	Ile	Arg	Pro	Ile	Ser	Xaa	Xaa	Val	Leu	Gln	Phe	Thr	Gly	Pro	Ser
	50					55							60		

Phe	Leu	Lys	Arg	Gly	Xaa	Leu	Gly	Lys
65						70		

<210> 1844

<211> 73

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1844

Arg Gly Arg Gly Trp Arg Xaa Val Leu Leu Gly Trp Glu Gly Thr Ser  
1 5 10 15

Pro Arg Thr Gln Xaa Gly Lys Gly Xaa Arg Pro Xaa Gly Glu Xaa Thr  
20 25 30

Asp Met Ser Leu Glu Asp Pro Phe Phe Val Val Arg Gly Glu Val Gln  
35 40 45

Lys Ala Val Asn Thr Gly Pro Arg Ala Val Pro Xaa Leu Val Arg Xaa  
50 55 60

Pro Ala Arg Xaa Xaa Gly Val Arg Asn  
65 70

<210> 1845

<211> 67

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1845  
 Ala Glu Gly Gln Ser Asn Leu Xaa Met Ser Gly Trp Phe Trp Thr Ala  
     1                    5                    10                    15

Thr Pro Ala Gly Xaa Xaa Pro Arg Ser Ser Cys Thr Thr Xaa Lys Val  
             20                    25                    30

Ala Ser Ser Pro Lys His Ser Phe Pro Leu Xaa Ser Pro Ser Asn Pro  
             35                    40                    45

Glu Ala Leu Trp Cys Ala Leu Cys Pro Met His Ser His Leu Ser Xaa  
       50                    55                    60

Pro Pro Gly  
   65

<210> 1846  
 <211> 45  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1846

Xaa	Val	Gln	Thr	Pro	Ser	Leu	Leu	Gly	Thr	Gly	Val	Arg	Gly	Arg	Leu
1				5				10						15	

Xaa	Phe	Val	Glu	Lys	Pro	Pro	Val	Lys	Ala	Ser	Gly	Gly	Ser	Pro	Cys
		20					25						30		

Cys	Ile	Val	Cys	Leu	Leu	Ser	Phe	Pro	Leu	Val	Arg	Arg
	35						40					45

<210> 1847

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1847  
Glu Gln Xaa Lys Glu His Thr Arg Ile Cys Ser Lys Ile Xaa Gly Arg  
1 5 10 15  
Phe Xaa Gly Arg Gly Xaa Xaa Pro Thr Glu Pro Gly Asp Met Leu Xaa  
20 25 30  
Val Gln Asp Lys Asn Xaa Arg Leu Thr Phe Lys Phe Gly His Arg Thr  
35 40 45  
Leu Leu Asn Pro Xaa Gly Asn Leu Thr Gly Lys Pro Lys Glu Glu Gln  
50 55 60  
Val Phe Trp Thr Leu Gly Lys Lys Pro Xaa Xaa Xaa Glu  
65 70 75

<210> 1848

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1848

Ala Arg Ala His Thr His Pro Arg Thr Gly Phe Val Lys Lys Lys Lys  
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Xaa Gly Gly Ala Xaa  
20 25 30

<210> 1849

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1849

Trp Pro Ala Val Thr Gly Phe Lys Thr Gly Leu Phe Leu Val Lys Met  
1 5 10 15

Gly Glu Leu Leu Ser Cys Gln Lys Cys Xaa Arg Ser Thr Trp Lys Thr  
20 25 30

Lys Ser Ser Gln Arg Glu Ser Lys Glu His Leu Ile Ser Leu Ile Ser  
35 40 45

Thr Cys Ser Tyr Phe Ser Lys Val Asn Ser  
50 55

<210> 1850

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1850

Ala Ile His Leu Pro Thr Pro Leu Phe Phe Lys Thr Ser Phe Asn Ser  
1 5 10 15

Leu Asn Lys Ile Gly Phe Val Phe Asn Phe Tyr Ser Leu Phe Ile Glu  
20 25 30

Ser Gln Leu Pro Leu Tyr Ile Ile Cys Tyr Trp Lys Arg Phe Leu Ser  
35 40 45

Asn Leu Gln Ser Leu Ile Val Pro His Arg Val Gly Gln Trp Leu Leu  
50 55 60

Glu Leu Glu Gly Pro  
65

<210> 1851

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (134)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (144)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (146)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (154)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1851  
Met Trp Lys Val Asp Trp Asp Pro Val Val Ser His Pro Lys Pro Ala  
1 5 10 15  
Phe Arg Glu Gly Leu Gln Thr Gln Asn Val Asn Pro Ala Ser Pro Leu  
20 25 30  
Ser Gln Asn Cys Gly Leu Val Pro Gly Arg Gly Gly Gly Trp Gly Gly  
35 40 45  
Ala Gly Gly Lys Phe Arg Phe Trp Arg Ala Pro Cys Gly Asp Ala Pro  
50 55 60  
Ser Cys Ala Leu Leu Phe Pro Arg Trp Ser Pro Arg Ser Pro Ser Gly  
65 70 75 80  
Ser Ala Cys Pro Ala Leu Lys Arg His Pro Pro Phe His Pro Val Ser  
85 90 95  
Gly Xaa Gly Cys Gly Ser Gly Arg His Ala Xaa Pro Xaa Cys Xaa Val  
100 105 110

Phe Glu Gln Ala Lys Ala Pro Thr Gly Xaa Gly Arg Ala Gly Val Lys  
115 120 125

Thr Val Lys Trp Leu Xaa Leu Asn Ile Pro Leu Trp Arg Asn Phe Xaa  
130 135 140

Lys Xaa Asn Ser Lys Xaa Ser Phe Trp Xaa Asn Glu Asn Gly Gln Val  
145 150 155 160

Arg Leu Val Lys Asn Phe  
165

<210> 1852

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1852

Asp Pro Arg Val Arg Gly Ala Arg Ser Val Val Leu Leu Leu Val Ala  
1 5 10 15

Val Arg Leu His Thr Leu Leu Ser Cys Pro Leu Glu Gln Pro Ala Gly  
20 25 30

Thr Glu Trp Ile Leu Glu Glu Gly Val Thr Thr Gly Pro Pro Arg Lys  
35 40 45

Pro Arg Ala Asp Ile Tyr Asn Leu Arg Ser Pro Asp Glu Phe Ile Val  
50 55 60

Gly Gln Asn Gln Ala Leu Ile Glu Pro Gly  
65 70

<210> 1853

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853

His Arg Gly Glu Cys Phe Ser Cys Val Ala Pro Arg Ala Gln Ser Ser  
1 5 10 15

Cys His Arg Arg His Pro Gly Phe Gly Gly Ala Gly Leu Gln Ala Pro  
20 25 30

Gly Arg Arg Thr Pro Arg Ala Thr Lys Ser Ser Leu Glu Xaa Xaa Ala  
35 40 45

Ser Tyr Ala Gly Gly Arg Gly Gly Gly Pro Asp Phe Gly Ser Arg Gly  
50 55 60

Leu Thr Gly Leu Val Arg Pro Val Trp Leu Leu Leu Trp Lys Gln Cys  
65 70 75 80

Cys Xaa Leu Leu Glu Asp Lys Arg Glu Ser Lys Pro Leu Val Gly Glu  
85 90 95

Ile Trp Leu Arg  
100

<210> 1854

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1854

Arg Xaa Ala Gly Ala Gly Gly Pro Val Arg Gly Leu Leu Val Gly Leu  
 1 5 10 15

Val Arg Gln Gln Arg Leu Arg Leu Arg Ser Gly Ala Gln Gln Pro His  
 20 25 30

His Ala Ala Arg His Pro Asp Pro Gln Leu Cys Arg Arg Gly Arg Arg  
 35 40 45

Arg Leu Leu Pro Gln Ser Ala Ala Ala Ala Ala Gly Pro Gly Ala  
 50 55 60

Pro Arg Ala Ala Pro Ala Pro Pro Ser Ala Thr Leu Pro Ala Gly Ala  
 65 70 75 80

Ala Ala Pro Pro Ser Pro Pro Phe Ser Phe Xaa Leu Pro Arg Arg Pro  
 85 90 95

Cys Pro Xaa Arg Pro Cys Xaa Xaa Ala Ala Pro Lys Xaa Pro Gly Ile  
 100 105 110

Arg Cys Ser Glu Arg Glu Ser Asn Leu Xaa Arg Val Pro  
 115 120 125

&lt;210&gt; 1855

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1855  
Val Gly Ser Ala Cys Leu Leu Asn Trp Tyr Gln Pro Leu Pro Leu Pro  
1 5 10 15  
Ser Lys Phe Leu Val Pro Pro Leu Arg Asn Ser Arg Ile Val Leu Gln  
20 25 30  
Ile Asp Asn Ala Arg Xaa Ala Ala Asp Glu Leu Pro Asn Gln Val Ser  
35 40 45  
Xaa Ser Xaa Leu Gly Ala Ala Glu Ala Arg Thr Gly Val Gly Val Gly  
50 55 60  
Gly Phe Arg Asn Xaa Pro Ser Pro Ser Leu Asp Gly Leu Lys Leu Asn  
65 70 75 80  
Pro Pro Met Asp Ser  
85

<210> 1856  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1856  
Tyr Gln Gln Ile Thr Ser Ser Ser Arg Leu Ser Ile Gln Leu Ile Leu  
1 5 10 15  
Ile Ser Xaa Asp Xaa Asn Val Thr Gln Xaa Leu Leu Ile Ala Pro Asn  
20 25 30  
Lys Xaa Val Ser Val Xaa Pro Leu Pro Ser Glu Leu  
35 40

<210> 1857  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1857

Ser	Thr	His	Ala	Ser	Gly	Phe	Ser	Ala	Pro	Ser	Arg	Ile	Ser	Ala	Trp
1				5					10					15	

Phe	Gly	Pro	Pro	Ala	Ser	Xaa	Pro	Ala	Ser	Xaa	Met	Ser	Ile	Xaa	Xaa
			20					25					30		

Thr	Gln	Lys	Ser	Tyr	Lys	Xaa	Ser	Xaa	Ser	Gly	Pro	Arg	Gly	Phe	Ser
		35					40					45			

Ser	Arg	Ser	Tyr	Thr	Ser	Gly	Xaa	Gly	Ser	Arg	Ile	Ser	Ser	Ser	Xaa
	50					55					60				

Phe	Ser	Arg	Val	Gly	Ser	Ser	Asn	Phe	Arg	Gly	Gly
65						70					75

<210> 1858

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1858

Arg Leu Arg Thr Lys Thr Cys Thr Trp Ser Phe Pro Gly Ala Leu Cys  
1 5 10 15

Val Val Glu Leu Arg Trp Asn Phe Gly Ala Leu Gly Cys Gln Arg Ala  
20 25 30

Cys Leu Val Ala Thr Glu Thr Ser Pro Ala Arg Leu Arg Gly His Phe  
35 40 45

Ile Thr Ile Gln Lys Cys Leu Pro Leu Lys Ala Ser Val Val Val Phe  
50 55 60

Lys Pro Gln Lys Ser His Xaa Gln Asp His Xaa Thr Thr Thr Leu Thr  
65 70 75 80

Ser Val Pro

<210> 1859

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1859  
Lys Ser Ser Pro Gly Lys Met Gly Leu Xaa Glu Xaa Ala Thr Gly Thr  
1 5 10 15  
Ala Ser Cys Arg Trp Ser Trp Pro Xaa Ser His Arg Pro Val Tyr Lys  
20 25 30  
Xaa Cys Ala Ser Trp Thr Leu Xaa Ser Gly Thr Gly Ser Trp Thr Leu  
35 40 45  
Lys Ser Leu Val Pro Pro Ala Arg Xaa Trp  
50 55

<210> 1860  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1860  
Gln Asp Gln Ser Cys Arg Lys Met Asp Ser Glu Val Gln Arg Asp Gly

1 5 10 15  
Arg Ile Leu Asp Leu Ile Asp Asp Ala Trp Arg Glu Asp Lys Leu Pro  
20 25 30  
Tyr Glu Asp Val Ala Ile Pro Leu Asn Glu Leu Pro Xaa Pro Xaa Gln  
35 40 45  
Asp Asn Gly Gly Thr Thr Asp Leu Ser Lys Xaa Lys Lys  
50 55 60

&lt;210&gt; 1861

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1861

Ser Arg Gly Ala Pro Phe Phe Lys Pro Val Arg Lys Ala Gln Tyr Ser  
1 5 10 15

Gly Gly Ser Asp Pro Ile Phe Gln Val Arg Pro Ser Pro Leu Ser Leu  
20 25 30

Thr Arg Lys Gly Asn Ser Leu Thr Pro Cys Ala Ser Gln Val Arg Gln  
35 40 45

Cys Ser Pro Cys Phe Gly Ser His Thr Val Arg Ala Xaa Thr Asp Leu  
50 55 60

Cys Pro Leu Ser Gly Thr Pro  
65 70

&lt;210&gt; 1862

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1862

Thr Pro Thr Pro Phe Gly Ser Ala Arg Ala Pro Gln Ala Arg Pro Gly  
1 5 10 15  
Arg Arg Asp Gly Arg Met Ser Gly Gly Arg Arg Lys Glu Glu Pro Pro  
20 25 30  
Gln Pro Gln Leu Ala Asn Gly Ala Leu Lys Val Ser Val Trp Ser Lys  
35 40 45  
Val Leu Arg Thr Thr Arg Pro Gly Xaa Ile Arg  
50 55

&lt;210&gt; 1863

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1863

Gln Leu Ser Thr Leu Ile Asn Trp Leu Gln Ser Thr Ser Pro Ala Ala  
1 5 10 15  
Gly Lys Lys Gly Gly Arg Ser Pro Gly Arg Phe Glu Ala Ala Ser Ser  
20 25 30  
Asn Leu Gln Phe Asn Met Lys Ile Thr Ser Glu Leu Val Lys Arg Gly  
35 40 45  
Leu Thr Pro Val Phe Arg Phe Thr Val Gln Cys Phe Thr Gln Pro Phe  
50 55 60  
Tyr Leu Thr Pro Lys Lys Lys Lys Lys Lys Asn Xaa Gly Gly Gly  
65 70 75 80  
Pro Gly Xaa

<210> 1864  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 1864  
Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15  
Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30  
Ser Lys Ile Glu Ser  
35

<210> 1865  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 1865  
Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15  
Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30  
Ser Lys Ile Glu Ser Leu Val Gln Leu  
35 40

<210> 1866  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1866  
Asn Thr Glu Leu Thr Ile Asn Ser Pro Ile Ser Thr Ile Asn Gln Gln  
1 5 10 15  
Val Ile Ile Thr Leu Thr Val Asn Pro Thr Lys Lys Lys Lys Xaa  
20 25 30

Lys

&lt;210&gt; 1867

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1867

Gly Ser Gly Gly Lys Met Glu Asp His Gln His Val Pro Ile Asp Ile  
1 5 10 15

Gln Thr Ser Lys Leu Leu Asp Trp Leu Val Asp Arg Arg His Cys Ser  
20 25 30

Leu Lys Trp Gln Ser Leu Val Leu Thr Ile Arg Glu Lys Ile Asn Ala  
35 40 45

Ala Ile Gln Asp Met Pro Glu Ser Glu Glu Ile Ala Gln Leu Leu Ser  
50 55 60

Gly Ser Tyr Ile His Tyr Phe His Cys Leu Arg Ile Leu Asp Leu Leu  
65 70 75 80

Lys Gly Thr Glu Ala Ser Thr Lys Asn Ile Phe Gly Arg Tyr Ser Ser  
85 90 95

Gln Arg Met Lys Asp Trp Gln Glu Ile Ile Ala Leu Tyr Glu Lys Asp  
100 105 110

Asn Thr Tyr Leu Val Glu Leu Ser Ser Leu Leu Val Arg Asn Val Asn  
115 120 125

Tyr Glu Ile Pro Ser Leu Lys Lys Gln Ile Ala Lys Cys Gln Gln  
130 135 140

&lt;210&gt; 1868

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1868

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30



Ser Lys Ile Val Ser  
35

<210> 1869

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1869

Ile Leu Gln Ala Val Arg Thr Glu Trp Tyr Ile Val Val Phe Leu Asn  
1 5 10 15

Ile Ser Glu Pro Arg Lys Gly Thr Val Glu Ile Arg Tyr Tyr Asn Leu  
20 25 30

Met Gly Pro Leu Ser Val Cys Gly Leu Leu Leu Thr Glu Met Leu Cys  
35 40 45

Ser Thr Trp Ala Ala Met Arg Leu Pro  
50 55

<210> 1870

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1870

Val Pro His Ser Glu Leu Leu Gln Pro Ala Ser Arg Ile Cys Ser Met  
1 5 10 15

Ser Arg Arg Ser Gln Ser Leu Ala Ala Ser Ser Val Pro Gly Glu Arg  
20 25 30

Cys Leu Glu Leu Ser Ser Gln Gly Val Met Ser Ala Ser Arg Val Cys  
35 40 45

Met Gly Ala Glu Gly Thr Leu Leu Leu Pro Pro Trp Ser Gly Asn  
50 55 60

<210> 1871

<211> 70

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871  
 Thr Trp Cys His Glu Val Gly Glu Leu Gly Glu Leu Ser His Ser Ser  
           1                  5                  10                  15  
 Tyr Arg Xaa Ala Phe Leu Lys Cys Pro Leu Thr Ser Arg Phe Cys Ser  
                   20                  25                  30  
 Arg Ser Ser Phe Ser Glu Leu Lys Val Ile Phe Ile Tyr Val Trp Gly  
           35                  40                  45  
 Lys Ile Asn Ser Ser Ser Lys Arg Ile Leu Ile Arg Leu Xaa Xaa Leu  
           50                  55                  60  
 Leu Lys Thr Xaa Pro Asn  
           65                  70

<210> 1872  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1872  
 Glu Thr Trp His Leu Asn His Ile Leu Ser Leu Gly Lys Ser Phe Gly  
           1                  5                  10                  15

Leu Cys Ser Cys Phe Val Cys Phe Thr Cys Phe Pro Pro Ser Pro Lys  
20 25 30

Pro Phe Val Leu Ser Val Lys Leu Thr Phe Pro Phe Xaa Phe Leu  
35 40 45

<210> 1873

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1873

Lys Thr Leu Leu Leu Trp Asn Met Lys Leu Cys Val Arg Trp Arg Asp  
1 5 10 15

Pro Leu Asn Leu Arg Ala Leu Asn Ser Pro Glu Ser Thr Leu Gly Arg  
20 25 30

Phe Ala Met Glu Leu Lys Leu Glu Val Ile Phe Leu Gly Ala Leu Glu  
35 40 45

Ser Phe Leu Gly Thr Gln Asn Tyr Gln Lys Ser Gly Thr Val Arg Arg  
50 55 60

Lys Ser Val Cys Lys Thr Gly Phe Leu Glu Val  
65 70 75

<210> 1874

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1874

Ile Asn Asn Ile Ser Arg Gln Ile Tyr Leu Thr Asp Asn Pro Glu Ala  
1 5 10 15

Val Ala Ile Lys Leu Asn Gln Thr Ala Leu Gln Ala Val Thr Pro Ile  
20 25 30

Thr Ser Phe Gly Lys Lys Gln Glu Ser Ser Cys Pro Ser Gln Asn Leu  
35 40 45

Lys Asn Ser Glu Met Glu Asn Glu Asn Asp Lys Ile Val Pro Lys Ala  
50 55 60

Thr Ala Ser Leu Pro Glu Ala Glu Glu Leu Ile Ala Pro Gly Thr Pro

65                                      70                                      75                                      80  
 Ile Gln Phe Asp Ile Val Leu Pro Ala Thr Glu Phe Leu Asp Gln Asn  
                                     85                                      90                                      95  
 Arg Gly Ser Arg Arg Thr Asn Pro Phe Gly Glu  
                                     100                                      105

<210> 1875

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1875

Gly Glu Glu Ala Cys Phe Ala Val Gly Ser Leu Val Leu Ala Arg Ser  
   1                                    5                                    10                                    15

Leu Arg Val Cys Thr Gly Gly Thr Leu Pro Leu Pro Ala Pro Phe Leu  
                                     20                                    25                                    30

Xaa Xaa Pro Val Gly Asn Ile His Leu Phe Met Pro Val Cys Cys Met  
                                     35                                    40                                    45

Gln Ala Phe Trp Leu Pro Thr Leu Gln Gln Asn Glu Leu His Gln Leu  
   50                                    55                                    60

Leu Ser Ala Asp Ser Ala His Arg Glu Ser Trp Ser His Ser Leu Phe  
   65                                    70                                    75                                    80

Cys Phe Ala Leu

<210> 1876

<211> 65

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876  
Gln Trp Gly Phe Val Xaa Asp Lys Met Ala Met Ala Gly Arg Val Xaa  
1 5 10 15  
Pro Pro Ser Tyr Asp Glu Arg Pro Phe His Arg Pro Val Thr Glu Leu  
20 25 30  
Arg Glu Asp Lys Xaa Ser Glu Xaa Xaa Gly Pro Ala Ser Leu Leu Leu  
35 40 45  
Thr Arg Pro Val Pro Lys Lys Tyr Val Phe Gln Asn Ala Leu Asn Leu  
50 55 60  
Asn  
65

<210> 1877  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids .

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1877

Arg	Ala	Pro	Pro	Gly	Gln	Xaa	Gly	Gly	Asp	His	Gln	Asp	Phe	Ile	Gln
1				5					10					15	

Gly	Gly	Arg	Asp	Gln	Glu	Ile	Lys	Pro	Pro	Thr	Leu	Ser	Val	His	Thr
		20					25						30		

Gly	Leu	Cys	Asp	Tyr	Ile	Asp	Gln	Pro	Leu	Lys	Ile	Lys	Gln	Xaa	Leu
	35						40					45			

Ile	Cys	Xaa	Xaa	Asp	Lys	Xaa	Lys	Ile	Ser
	50					55			

<210> 1878

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1878

Ala Leu Asp Trp Leu Pro Glu Gly Leu Val Lys Ile His Ser His Pro  
1 5 10 15

Ala Gly Ser Gly Ser Asn Arg Gly Phe His Ser Phe Ile Ser Xaa Leu  
20 25 30

Ala Asp Lys Asp Pro Gly Xaa His Val Leu Leu Ile Xaa  
35 40 45

&lt;210&gt; 1879

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1879

Val Lys Met Ile Ile Gly Pro Lys Leu Thr Ala Leu Pro Lys Arg Gln  
1 5 10 15

Arg Ser Gln Asp Ile Gly Arg Ser Gly Ala Ala Leu Glu Thr Leu Lys  
20 25 30

Phe Thr Ser Met Arg Gly Leu Glu Cys Ser Leu Gly Arg Arg Ala Ser  
35 40 45

Thr Cys Ser Pro Gly Pro  
50

&lt;210&gt; 1880

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1880

Ser Ala Cys Gly Ser Pro Gly Gly Asn Phe Pro Ser Pro Arg Gly Gly  
1 5 10 15

Ser Gly Val Ala Ser Met Glu Arg Ala Glu Ser Ser Ser Thr Glu Pro  
20 25 30

Ala Lys Ala Ile Lys Pro Ile Asp Gln Lys Ser Val His Gln Ile Cys

35

40

45

Ser Gly Gln Val Val Leu Ser Leu Ser Thr Ala Val Lys Glu Leu Val

50

55

60

Glu Asn Ser Leu Asp Ala Gly Ala Thr Asn Ile Asp Leu

65

70

75

&lt;210&gt; 1881

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1881

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acaagagcag gtggcagcag gggaaactct tctcatgtct cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat

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733

&lt;210&gt; 1882

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1882

Trp Ser Xaa Trp Ser

1

5

&lt;210&gt; 1883

&lt;211&gt; 86

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



<400> 1883

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<211> 27

<212> DNA

<213> Homo sapiens

<400> 1884

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<210> 1885

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1885

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gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
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<210> 1886

<211> 32

<212> DNA

<213> Homo sapiens

<400> 1886

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<210> 1887

<211> 31

<212> DNA

<213> Homo sapiens

<400> 1887

gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 1888

<211> 12

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1888

ggggactttc cc

12

&lt;210&gt; 1889

&lt;211&gt; 73

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1889

gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
ccatctcaat tag 73

&lt;210&gt; 1890

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1890

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
cttttgcaaa aagctt 256

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/05988

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : Please See Extra Sheet.

US CL : 536/23.1; 435/320.1, 325, 455, 68.1; 530/300, 350

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1; 435/320.1, 325, 455, 68.1; 530/300, 350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS, MEDLINE, CAPLUS, BIOTECHDS, EMBASE, SEQ Search  
prostate, cancer, carcinoma, protein, peptide, gene, dna, transfect

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SCHAAPVELD et al. The Mouse Gene Ptpfr Encoding the Leukocyte Common Antigen-Related Molecule LAR: Cloning, Characterization, and Chromosomal Localization. Genomics. 01 May 1995, Vol. 27, No. 1, pages 124-130, see entire document.	1-4, 21
X	DE PLAEN et al. Structure, chromosomal localization, and expression of 12 genes of the MAGE family. Immunogenetics. September 1994, Vol. 40, pages 360-369, especially page 363 and entire document.	1-4 and 21

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

15 MAY 2000

Date of mailing of the international search report

05 JUL 2000

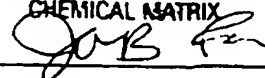
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PARALEGAL SPECIALIST  
CHEMICAL MATRIX

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05988

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-12, 14-16, 21 and SEQ ID NOS: 1-10

Remark on Protest

☐  
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/05988

## A. CLASSIFICATION OF SUBJECT MATTER: IPC (7):

C07H 21/04; C12N 15/63, 15/85, 15/09; C07K 5/00, 14/00; C12P 21/00

## BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-12, 14, 15, 16 and 21, drawn to cDNA, polypeptides, genes, a method of using the cDNA to make host cells comprising the cDNA, and a method of making the polypeptide.

Group II, claim(s) 13, drawn to an antibody specific for the polypeptides of Group I.

Group III, claim(s) 17, drawn to a therapeutic method of using the cDNA or the polypeptide of Group I.

Group IV, claim(s) 18 and 19, drawn to a diagnostic method of using the cDNA or polypeptide of Group I.

Group V, claim(s) 20, drawn to a method of using the polypeptide of Group I to isolate a binding partner.

Group VI, claim(s) 22, drawn to a method of using the cDNA of Group I to identify the activity of the polypeptide encoded by the cDNA.

Group VII, claim 23, drawn to the binding partner made by the method of Group V.

The inventions listed as Groups I-VII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: PCT Rule 13.1 and Annex B do not provide for unity of invention between two or more different products or methods of use that share a special technical feature.

In addition, each Group detailed above reads on distinct Groups drawn to multiple SEQ ID Numbers. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicant(s) must further elect up to 10 SEQ ID Numbers for examination in the elected Group detailed above.